TECHNICAL MANUAL

ARMY AMMUNITION DATA SHEETS SMALL CALIBER AMMUNITION FSC 1305

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ARMY AMMUNITION DATA SHEETS SMALL CALIBER AMMUNITION FSC 1305

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can improve this manual. If you find any mistakes or know of a way to improve the procedures, please let us know. Mail your DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to Commander, U.S. Army Armament Research, Development and Engineering Center; ATTN: SMCAR-LSB, Picatinny, Arsenal, NJ 07806-5000. A reply will be furnished to you.

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CHAPTER 1 INTRODUCTION

1-1. PURPOSE

This manual is a reference handbook published as an aid in planning, training, familiarization and identification of small arms ammunition, ranging from 22 caliber through 30 millimeter and shotgun ammunition from .410 to 10 gage. This is the Federal Supply Class 1305. Operating instructions are contained in the appropriate weapons manuals.

1-2. SCOPE

- a. For each item of materiel, there are illustrations and descriptions together with characteristics and related data. Included in the related data are weights, dimensions, performance data, shipping and storage data, type classification, and logistics control code (LCC). Refer to SC 1305/30-IL for weight, dimensions and cube of packing boxes for small arms ammunition.
- b. Information concerning supply, operation, and maintenance of the items will be found in the publications referenced for those items. A complete listing of these publications is maintained in DA Pam 310 series indexes.
- c. Within this manual, items with the following type classifications are included:
 - (1) Standard (STD)
 - (2) Contingency (CON)
 - (3) Limited Procurement (LP)
- (4) Reclassified obsolete (OBS) for regular Army use, but used by National Guard or Reserve Units.
- (5) Reclassified . OBS for all Army use, but used by Marine Corps, Air Force or Navy.
- (6) Reclassified OBS, no users, but U.S. stocks remain.
- d. Items with the following type classification are not included: Reclassified OBS for all U.S. use. No U.S. stocks remain. (Foreign use or stock may remain.)
- e. Numerical values, such as weights, dimensions, candlepower, etc., are nominal values, except when

specified as maximum or minimum. Actual items may vary slightly from these values. Allowable limits can be obtained from the drawings indicated in the data sheets.

1-3. KEY TO ABBREVIATIONS AND SYMBOLS

•	•
A	
AF	
band	
	linked ammo (cloth or metal)
bx	
cal	
cm	
comm	
ctg	
ctn	
DODIC	Department of Defense
	Identification Code
DODAC	Department of Defense
	Ammunition Code
ft	
fps	feet per second
g	gram(s)
gr	
GSA	General Services Administra-
	tion
H	
Hin	
	inch(es)
in	inch(es) Length
in L m MBR	inch(es) Length meter(s) Meet Ballistic Requirement
in L m	inch(es) Length meter(s) Meet Ballistic Requirement
in L m MBR	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps
in	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s)
in	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal
inL m MBRMC mm MPa	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second
inL m MBRMC mm MPa mps	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box
inL	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy
inL m MBRMCm MPa mps mtl bx mtl Ind bx	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy
inL	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy North Atlantic Treaty Organization
inL	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy North Atlantic Treaty
in	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy North Atlantic Treaty Organization Storage Compatibility Group pounds per square inch
in	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy North Atlantic Treaty Organization Storage Compatibility Group pounds per square inch
in	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy North Atlantic Treaty Organization Storage Compatibility Group pounds per square inch Width
in	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy North Atlantic Treaty Organization Storage Compatibility Group pounds per square inch Width wooden box
in	inch(es) Length meter(s) Meet Ballistic Requirement Marine Corps millimeter(s) Mega Pascal meters per second metal box metal lined box Navy North Atlantic Treaty Organization Storage Compatibility Group pounds per square inch Width wooden box wirebound box

1-4. METRIC CONVERSION CHART

For approximate conversions to/from metric measures see table 1-1.

Table 1-1. Metric Conversion Chart

Approximate Conversions to Metric Measures

•	When You	Multiply		
Symbol	Know	Multiply By	To Find	Symbol
		LENGT	Н	
in.	inches	2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	
mi	miles	1.	kilometers	
		AREA		
in ²	square inches	6.5	square centimeters	s cm ²
ft2	square feet	0.09	square meters	m2
yd ²	square yards	0.8	square meters	m_2^2
mil	square miles	2.6	square kilometers	km^2
	acres	0.4	hectares	ha
		WEIGH	-	
		WEIGH		
OZ	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons	0.9	tonnes	t
	(2000 lb)			
VOLUME				
4	4			
tsp	teaspoons	5	milliliters	ml
Tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
С	cups	0.24	liters	1
pt	pints	0.47	liters	1
qt	quarts	0.95	liters	1
gal	gallons	3.8	liters	1
ft ³	cubic feet	0.03	cubic meters	m_{3}^{2}
yd ³	cubic yards	0.70	cubic meters	m ³

TEMPERATURE					
	When You		Multipl	V	
Symbol	Know	Subtract	Ву	To Find	Symbol
<u>°F</u>	Fahrenheit	32	0.55	Celsius	°C
App	proximate Con	versions f	rom M	etric Meas	sures
Symbol	When You Know	Multiply By	Т	o Find	Symbol
		LENGT	н		
mm	millimeters	0.04	inches	•	in.
cm	centimeters	0.4	inches		in.
m	meters	3.3	feet	'	ft
m	meters	1.1	yards		yd
km	kilometers	0.6	miles		mi
		AREA			
cm ²	square centi- meters	0.16	square	e inches	in ²
m^2	square meter	s 1.2	square	e yards	vd^2
km ²	square kilo- meters	0.4		e miles	mi ²
ha	hectares (10,000 m ²)	2.5	acres		
		WEIGH	Т		
g	grams	0.035	ounce	S	OZ
kg	kilograms	2.2	pound		lb
<u>t</u>	tonnes (1000	kg) 1.1	short t		
VOLUME					
ml	milliliters	0.03	fluid o	unces	fl oz
1	liters	2.1	pints		pt
1	liters	1.06	quarts		qt
1	liters	0.26	gallon	S	gal
m ³	cubic meters	35	cubic 1		ft ³
m ³	cubic meters	1.3	cubic	yards	yd ³
TEMPERATURE					
_	When You	Multiply	Add		
Symbol	Know	Ву		To Find	Symbol

32

Fahrenheit

1.8

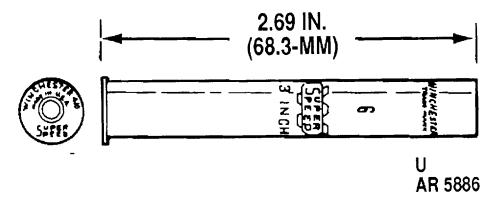
°C

Celsius

CHAPTER 2

SHOTGUN CARTRIDGES

CARTRIDGE, .410, SHOTGUN, NO. M35



Type Classification:

OBS - MSR 11756003.

<u>Use:</u>

Rifle/Shotgun, Caliber .22/.410 Bore, Survival, M6. The cartridge is intended for use in survival weapons against small game.

Description:

The cartridge case is all aluminum, and is loaded with smokeless powder and No. 6 copper-coated lead shot.

Tabulated Data:

DODAC	1305-A055
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile
Weight	430 gr
Length	2.69 in. (68.3 mm)
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	Smokeless powder
Weight	

Performance:

Chamber pressure	13,000 psi
Velocity	960 fps, 3 ft from
	muzzle

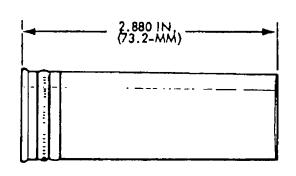
Shipping and Storage Da	ta:
Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	
	AMMUNITION
Drawing number	7553403

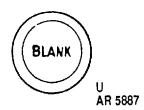
References:

SB 700-20 TM 9-1300-206

CARTRIDGE, 10 GAGE, SHOTGUN, BLANK







Type Classification:

STD - OTCM 36524.

Use:

This is an optional use item for reveille and retreat salutes, and is fired in the 3-inch gun, 75mm gun, 75mm howitzer, or 105lmm howitzer.

Description:

The cartridge is similar to standard shotgun cartridges but it contains no lead shot. It has a paper cartridge case. The forward closing disc is marked "BLANK."

Function:

The cartridge is designed to produce a noise when initiated. It is used as a salute item in large caliber weapons. The blank is inserted either in a prepared cartridge case or in a breech block of the weapon being used.

Tabulated Data:

DODAC	1305-A010
UNO serial number	0014
UNO proper shipping	
name	Cartridges for
	weapons, blank
Weight	290 gr

Length	2.88 in. (73.2 mm)
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
Туре	NA
Weight	
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	Black powder
Weight	

Performance:

Chamber pressure	NA
Velocity	NA

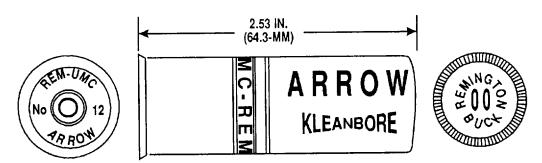
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	10524632

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, 12 GAGE, SHOTGUN, NO. 00



U AR 5892

Type Classification:

STD - OTCM 36841.

Use:

Military issue shotgun, 2-3/4 inch chamber. The cartridge is intended for guard and combat use.

Description:

The cartridge case is paper, and is loaded with smokeless powder and No. 00 commercial shot.

Tabulated Data:

DODACUNO serial numberUNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile
Weight	791 gr
Length	2.53 in. (64.3 mm)
Tracer	NA `
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA

Weight	NA
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	Smokeless powder
Weight	MBR
_	

Performance:

Chamber pressure	11,000 psi
Velocity	1325 fps, 3 ft from
	muzzle

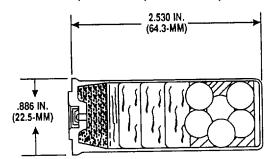
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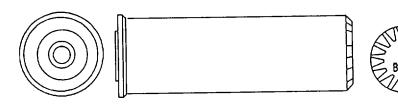
Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	
-	AMMUNITION
Drawing number	7553929

References:

SB 700-20 TM 9-1005-303-14 TM 9-1300-206

CARTRIDGE, 12 GAGE, SHOTGUN, NO. 00, M162





U AR 5891

Type Classification:

LP - OTCM 38036.

Use:

Military issue shotgun, 2-3/4 inch chamber. The cartridge is intended for guard and combat use.

Description:

The cartridge case is all plastic, and is loaded with smokeless powder and No. 00 commercial shot.

Tabulated Data:

DODAC UNO serial number UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile
Weight	0.736 gr
Length	2.53 in. (64.3 mm)

Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	MBR

Performance:

Chamber pressure	11,000 psi
Velocity	1325 fps, 3 ft from
•	muzzle

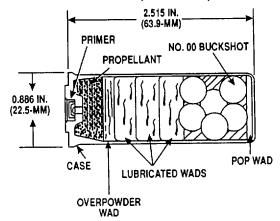
Shipping and Storage Data:

Quantity-distance	class/
SCG	1.4S
Storage code	Class \

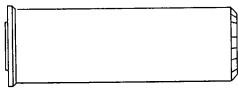
References:

SB 700-20 TM 9-1005-303-14 TM 9-1300-206

CARTRIDGE, 12 GAGE, SHIOTGUN, NO. M19









U AR 5888

Type Classification:

STD - OTCM 36841.

Use:

Military issue shotgun, 2-3/4 inch chamber. The cartridge is intended for guard and combat use.

Description:

The cartridge case is all brass, and is loaded with smokeless powder and No. 00 commercial shot.

Tabulated Data:

DODAC	1305-A011
UNO serial number .	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile
Weight	930 gr
Length	2.515 in. (63.9
	mm)

Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	Smokeless powder
Weight	26 gr

Performance:

Chamber pressure	11,000 psi
Velocity	1125 fps, 3 ft from
	muzzle

Shipping and Storage Data:

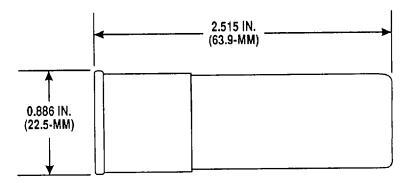
Quantity-distance of	class/
SCG	1.4S
Storage code	Class V

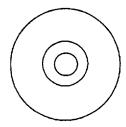
DOT shipping classC
DOT designationSMALL ARMS
AMMUNITION
Drawing number7640981

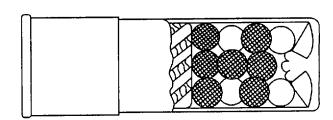
References:

SB 700-20 TM 9-1005-303-14 TM 9-1300-206

CARTRIDGE, 12 GAGE, SHOTGUN, NO. M257







AR 5889

Type Classification:

Terminated - MSR 08752013.

Use:

Military issue shotgun, 20-inch full choke barrel. The cartridge is intended for guard duty and for riot control weapons.

Description:

The cartridge case is plastic, and is loaded with smokeless powder and No. 4 hard lead antimony pellets.

Tabulated Data:

DODACUNO serial number UNO proper shipping	
name	weapons, inert
	projectile
Weight	748 gr
Length	_

	(63.9 mm)
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	MBR

Performance:

Chamber pressure	11,000 psi
Velocity	1335 fps, 3 ft from
	muzzle

Shipping and Storage Data:

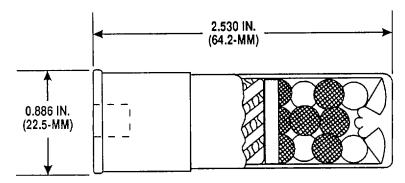
Quantity-distance cla	iss/
SCG	1.4S
Storage code	Class V

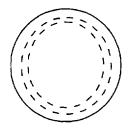
DOT shipping classC
DOT designationSMALL ARMS
AMMUNITION
Drawing number10542446

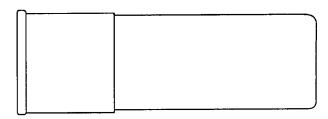
References:

SB 700-20 TM 9-1005-303-14 TM 9-1300-206

CARTRIDGE, 12 GAGE, SHOTGUN, NO. M274







U AR 5890

Type Classification:

OBS - MSR 11756003.

Use:

Military issue, riot-type shotgun, 20-inch barrel cylinder bore. The cartridge is intended for use against small game and for riot control weapons.

Description:

The cartridge case may be paper or plastic, and is loaded with smokeless powder and No. 4 hard chilled shot.

Tabulated Data:

DODAC	1305-A011
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile

Weight	740 gr
Length	2.53 in. (64.2 mm)
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	MBR

Performance:

Chamber pressure	11,000 psi
Velocity	1255 fps, 3 ft from
	muzzle

Shipping and Storage Data:

Quantity-distance class/	
SCG1.4S	
Storage codeClass	٤٧

References:

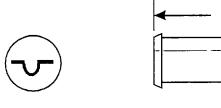
SB 700-20 TM 9-1005-303-14 TM 9-1300-206

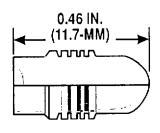
CHAPTER 3 CALIBER .22 CARTRIDGES

CARTRIDGE, CALIBER .22, BALL, LONG RIFLE

1.00 IN.

(25.40-MM)





U AR 5895

Type Classification:

STD - OTCM 36841.

Use:

Subcaliber Rifle M2A1; Winchester Models 52 and 75; Remington Models M40X and 513T; Machine Gun Trainers M3 and M4. The cartridge is intended for marksmanship practice and match use.

Description:

BALL Cartridge. The cartridge is grade match.

Tabulated Data:

DODACUNO serial numberUNO proper shipping	
name	.Cartridges for
	weapons, inert
	projectile
Weight	.52 gr
Length	
Tracer	.NA
Primer	.Percussion
	(Rimfire)
Fuze NA	,
Explosive:	
Туре	.NA
Weight	

Incendiary:	
Type	NA
Weight	
Propellant:	
Type	Smokeless powd

TypeSmokeless powder WeightMBR

Performance:

Chamber pressure	24,000 psi
Velocity	
•	muzzle

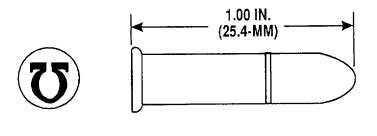
Shipping and Storage D ata:

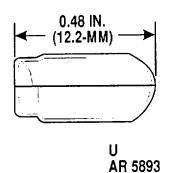
Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	
AMMUNITION	
Drawing number	7553931

References:

SB 700-20 TM 9-1005-206-14P/4 TM 9-1005-226-14 TM 9-1300-206

CARTRIDGE, CALIBER .22, BALL, LONG RIFLE, M24





Type Classification:

OBS - MSR 11756003.

Use:

Subcaliber Rifle M2A1; Caliber .22 Rifle; Remington Models 40X and M513T; Steven's Model 416-2; Winchester Models 52 and 75; Machine Gun Trainers M3 and M4; pistols for gallery practice and training purposes. The cartridge is intended for use against small game for survival purposes.

Description:

BALL Cartridge.

Tabulated Data:

DODAC	1305-A086
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile
Weight	53 gr
Length	
Tracer	
Primer	Percussion
	(Rimfire)
Fuze	NA

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	2.5 gr
Projectile:	<u> </u>
Weight	40.5 gr
-	_

Performance:

Chamber pressure	24,000 psi
Velocity	1185 fps, 15 ft from
	muzzle

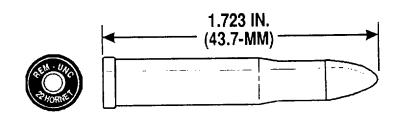
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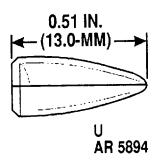
Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	
-	AMMUNITION
Drawing number	7640995

References:

SB 700-20 TM 9-1005-206-14P/4 TM 9-1005-226-14 TM 9-1300-206

CARTRIDGE, CALIBER .22, BALL, HORNET, M65





Type Classification:

OBS - MSR 11756003.

Use:

Caliber .22 Survival Weapons, M4 and M6. The cartridge is intended for use against small game.

Description:

BALL Cartridge.

Tabulated Data:

DODAC	1305-A088
UNO serial number 0012	
UNO proper shipping	
name	
	weapons, inert
	projectile
Weight	103 gr
Length	1.723 in. (43.7 mm)
Tracer	NA
Primer	
Fuze	NA
Explosive:	
Type	NA
Weight	

Type	NA
	NA
Propellant:	
Type	Smokeless powder
Weight	12.6 gr

Performance:

Incendiary:

Chamber pressure	43,000 psi
Velocity	2750 fps, 15 ft from
-	muzzle

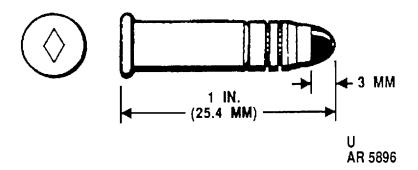
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	
-	AMMUNITION
Drawing number	7553664

References:

SB 700-20 TM 9-1005-206-14P/4 TM 9-1005-226-14 TM 9-1300-206

CARTRIDGE, CALIBER .22, TRACER, LONG RIFLE, M861



Type Classification:

STD - DA Letter.

Use:

Rifle M16A1 when adapted with the M261 Conversion Kit. The M861 cartridge, when fired from the rim-fired adapter M16A1 Rifle mounted on the Brewster Device, will increase the training proficiency in scaled range tank gunnery exercise by providing a visual display for tracking purposes.

Description:

TRACER Cartridge. The cartridge M861, .22 Caliber Long Rifle, rimfire with tracer is a commercially produced item, manufactured by Dynamite Nobel AG. The M861 is designed to be fired in the M16A1 rifle when adapted with the M261 Conversion Kit. It can be fired in the automatic or semi-automatic modes. The tracer (red) is visible between 27 and 192 feet in daylight to allow the gunner to observe and sense the impact of the tracer with normal vision and sighting devices when fired on the scaled range. The M861 is identified by a red painted tip.

Tabulated Data:

DODAC......1305-A090 UNO serial number 0012

orro propor ompping	
name	Cartridges for
	weapons, inert
	projectile
Weight	48 gr'
Length	
Tracer	
Primer	
	(Rimfire)
Fuze	,
Explosive:	
Type	NA
Weight	
Incendiary:	
Type	ΝΔ
Weight	
Propellant:	
	Con alcalaga mayudar
Type	Smokeless powder
Weight	∠.5 gr

Performance:

UNO proper shipping

Chamber pressure	24,000 psi
Velocity	990.75 fps. 302 m/s

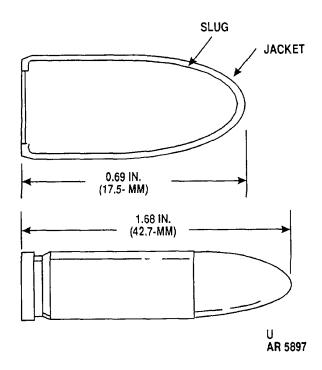
Shipping and Storage Data:

Quantity-distance class/

SCG	1.4S
Storage code	
DOT shipping class - C	
DOT designation	SMALL ARMS
G	AMMUNITION
Drawing number	9343015

CHAPTER 4 CALIBER .30 CARBINE CARTRIDGES

CARTRIDGE, CALIBER .30, CARIBINE, BAI,L, M1



Type Classification:

OBS - MSR 11756003.

Use:

Caliber .30, Carbine, MI, M2 or M3. The cartridge is intended for use against personnel and unarmored targets.

Description:

BALL Cartridge. The cartridge is identified by the lack of bullet tip color code painting.

Tabulated Data:

DODACUNO serial number 0012 UNO proper shipping	1305-A181
name	Cartridges for
	weapons, inert
	projectile
Weight	
Length	1.68 in. (42.7 mm)
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
	NA
Weight	

Incend	diary:

Type	NA
Weight	NA
Propellant:	
Type	WC 820
Weight	13 gr
Projectile:	-
Weight	111 gr

Performance:

Chamber pressure 40,000	psi
Velocity	1900 fps, 53 ft from
·	muzzle

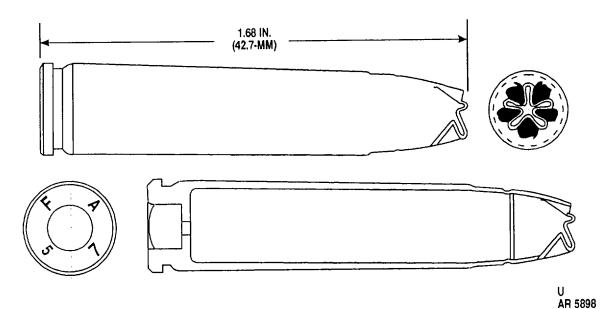
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class - C	
DOT designation	SMALL ARMS
-	AMMUNITION
Drawing number	6200954

References:

SB 700-20 TM 9-1300-206

CARTRIDG(E, CALIBER .30, CARBINES, GRENADE, M6



Type Classification:

OBS - MSR 11756003.

Use:

Caliber .30, Carbine, M1 or M2. The cartridge is currently used as a blank cartridge. 'The cartridge provides pressure to project grenades 1by using a grenade projection adapter.

Description:

GRENADE Cartridge. The cartridge identified by the rose-petal (rosette-crimp) closure of the cartridge case mouth.

Tabulated Data:

DODACUNO serial number	
UNO proper shipping	
name	Cartridges for
	weapons, blank
Weight	103 gr
Length	
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	

Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 480) and
••	black powder
Weight	21 gr

Performance:

Chamber pressure NA	
Velocity	145 fps, 5 ft from
•	muzzle of projectile
	grenade

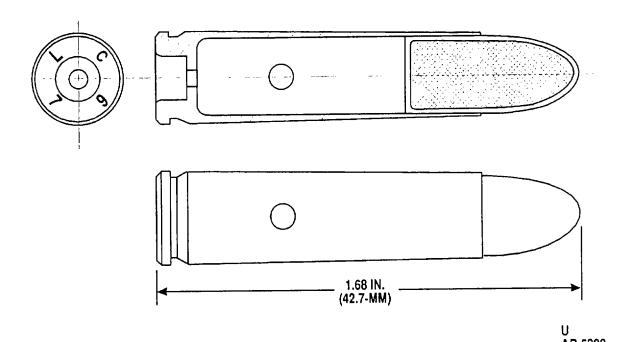
Shipping and Storage::

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DO'I' shipping class - C	
DOT designation	SMALL ARMS
<u> </u>	AMMUNI'TION
Drawing number	6181079

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, DUMMY, CALIBER .30, CARBINE, M13



Type Classification:

OBS - MSR 11756003.

Use:

Caliber .30, Carbine, M1 or M2. The cartridge is completely inert and is used for practice in loading weapons, for simulated firing to detect flinching of personnel when firing, and for inspecting and testing the mechanisms of the weapon.

Description:

<u>DUMMY</u> Cartridge. The cartridge is identified by two holes in the cartridge case and the absence of the primer.

Tabulated Data:

DODACUNO serial numberUNO proper shipping	
name	
	weapons, inert
	projectile
Weight	177 gr
Length	1.68 in. (42.7 mm)
Tracer	NA

Primer	NA
Fuze	NA
Explosive:	
Туре	NA
Weight	
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	NA
Weight	
3	

Performance:

Chamber pressure NA	
Velocity	lΑ

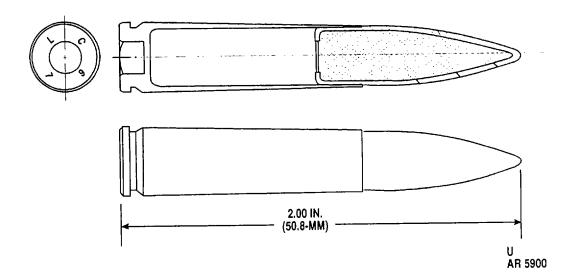
Shipping and Storage Data:

Quantity-distance class/	
SCG	NA
Storage code	NA
DOT shipping class - NA	
DOT designation	NONEXPLOSIVE
G	AMMUNITION
Drawing number	6177513

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, CALIBER .30, CARBINE, BALL, HIGH PRESSURE TEST, M18



Type Classification:

STD - OTCM 36841.

Use:

Caliber .30, Carbine, M1 and M2. The cartridge is used for proof firing of caliber .30 carbine weapons during manufacture, test, or repair.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by the stannic-stained (silvered) cartridge case.

Tabulated Data:

DODAC	1305-A185
UNO serial number	0012
UNO proper shipping	
name	
	weapons, inert
	projectile
Weight	243 gr
Length	2 in. (50.8 mm)
Tracer	NA `
Primer	Percussion
Fuze	NA

NA
NA
NA
NA
HPC 5
14 gr

Performance:

Chamber pressure 47,500 psi	
VelocityN	Α

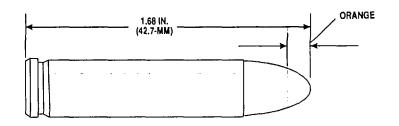
Shipping and Storage Data:

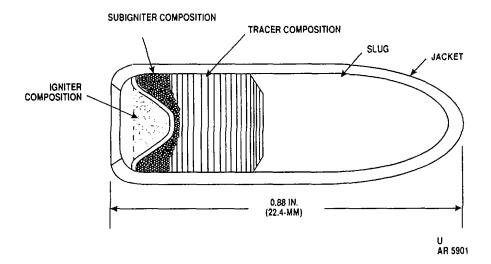
Quantity-distance class/	
SCG	.1.4S
Storage code	.Class V
DOT shipping class - C	
DOT designation	.SMALL ARMS
	AMMUNITION
Drawing number	.6176267

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, CALIBER .30, CARBINE, TRACER, M27





Type Classification:

OBS - MSR 11756003.

Use:

Caliber .30, Carbine, M1 and M2.

Description:

TRACER Cartridge. The cartridge is identified by an orange bullet tip.

Function:

In flight, the bullet exhibits a visible trace of full luminosity from a point not greater than 100 yards from the muzzle of the weapon to a point not less than 400 yards from the muzzle.

Tabulated Data:

DODAC1	305-A183
UNO serial number 0012	
UNO proper shipping	
nameC	
	eapons, inert
р	rojectile

Weight	191 gr
Length	
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Туре	NA
Weight	
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	WC 820
Weight	
=	-

Performance:

Chamber pressure 40,000) psi
Velocity	1800 fps, 53 ft from
•	muzzle

Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V

DOT shipping class ... C References:

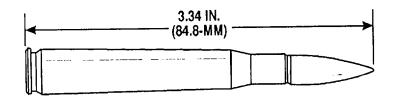
DOT designation ... SMALL ARMS

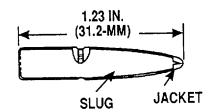
AMMUNITION SB 700-20

Drawing number ... 76409309 TM 9-1300-206

CHAPTER 5 CALIBER .30 RIFLE AND MACHINE GUN CARTRIDGES

CARTRIDGE, CALIBER .30, BALL, HIGH PRESSURE TEST; MI





U AR 5903

Type Classification:

STD - OTCM 37119.

Use:

All caliber .30 weapons except carbines. The cartridge is used to proof test caliber .30 rifles and machine guns during manufacture, test, or repair.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by stannic-stained (silvered) cartridge case.

Tabulated Data:

DODAC	1305-A237
UNO serial number 0012	
UNO proper shipping	
name	
	weapons, inert
	projectile
Weight	432 gr
Length	
Tracer	NA
Primer	Percussion
Fuze	NA

.NA
.NA
.NA
.NA
IMR 4198
.52 gr

Performance:

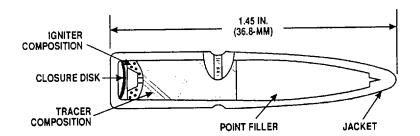
Chamber pressure 67,500 psi	
Velocity N	Α

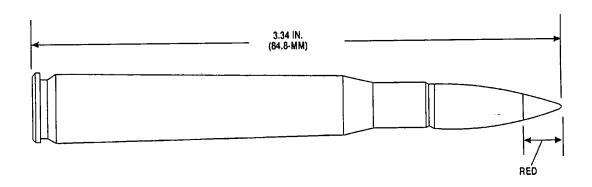
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	SMALL ARMS
_	AMMUNITION
Drawing number	6016308

References:

CARTRIDGE, CALIBER .30, TRACER, MI





Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .30, M37, M1919A4 and M1919A6; and Rifle, Caliber .30, M1. The tracer element is intended to permit visible observation of the bullet's in-flight path, or trajectory, to the target.

Description:

TRACER Cartridge. The cartridge is identified by a red bullet tip.

Tabulated Data:

DODAC	1305-A231
UNO serial number 0012	
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile
Weight	399 ar

Length	3.34 in. (84.8 mm)
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 4895
Weight	50 gr

U AR 5902

Performance:

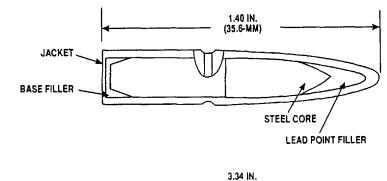
Chamber pressure	52,000 psi
Velocity	2665 fps, 78 ft from
,	muzzle

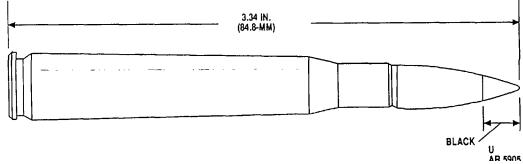
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V

References:

CARTRIDGE, CALIBER .30, ARMOR PIERCING, M2





Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .30, M37, M1919A4 and M1919A6; and Rifle, Caliber .30, M1.

Description:

ARMOR PIERCING Cartridge. The cartridge is identified by a black bullet tip.

Function:

Penetration, fired at 7/8-inch thick homogeneous armor plate at 100 yards, will be not less than 0.42 inch.

Tabulated Data:

DODAC	1305-A202
UNO serial number	0012
UNO proper shipping	
name	
	weapons, inert
	projectile
Weight	424 gr
Length	
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:	
Type	NA
Weight	
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 852
Weight	55 gr
Projectile:	_
Weight	165.7 gr

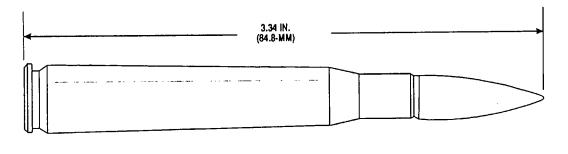
Performance:

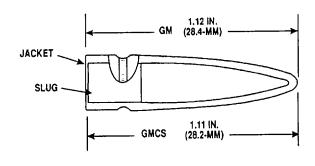
Chamber pressure	54,000 psi
Velocity	2715 fps, 78 ft from
•	muzzle

Shipping and Storage Data:

References:

CARTRIDGE, CALIBER .30, BALL, M2





Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .30, M37, M1919A4 and M1919A6; and Rifle, Caliber .30, M1. The cartridge is intended for use against personnel or unarmored targets.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet tip.

Tabulated Data:

DODAC	1305-A212
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile
Weight	416 gr
Length	3.34 in. (84.8
mm)	,
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:	
['] Type NA	
WeightNA	
Incendiary:	
Type NA	
Weight NA	
Propellant:	
Type IMF	₹ 4895
Weight50	gr
Performance:	
Chamber pressure 50	000 nsi

U AR 5904

Shipping and Storage Data:

Quantity-distance class/

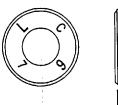
SCG	1.4S
Storage code	Class V
DOT shipping class	
DOT designation	
· ·	AMMUNITION
Drawing number	6137544

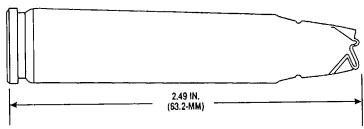
References:

CARTRIDGE, CALIBER.30, GRENADE, M3









U AR 5906

Type Classification:

OBS - MSR 11756003.

Use:

Rifle, Caliber .30, M1.

Description:

GRENADE Cartridge. The cartridge is identified by a rose-petal (rosette-crimped) closure of the cartridge case mouth.

Function:

The cartridge provides the pressure, on functioning, to project rifle grenades when using a grenade projection adapter.

Tabulated Data:

DODAC	1330-G838
UNO serial number	0014
UNO proper shipping	
name	Cartridges for
	weapons, blank

Weight	248 gr
Length	
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	
Weight	NA
Propellant:	
Type	IMR 489)5
Weight	45 gr.

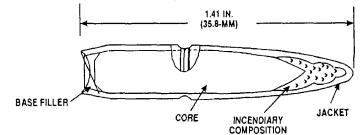
Performance:

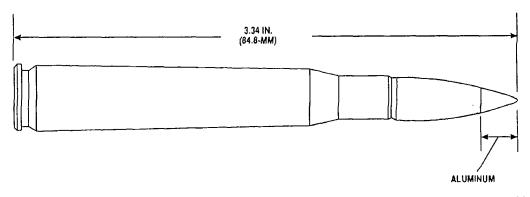
Chamber pressure	NA
Velocity	•
	muzzle/projected
	grenade

Shipping and Storage Data:	
Quantity-distance class/	
SCG 1.4S	
Storage code	١

DOT shipping class	C	References:
DOT designation	SMALL ARMS	SB 700-20
-	AMMUNITION	TM 9-1005-222-12P/1
Drawing number	6173949	TM 9-1300-206







U AR 5907

Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .30, M37, M1919A4 and M1919A6; and Rifle, Caliber .30, M1.

Description:

ARMOR PIERCING INCENDIARY Cartridge. The cartridge is identified by an aluminum bullet tip.

FUNCTION:

Penetration, fired at a 7/8-inch steel plate at 100 yards, will not be less than 0.42 inch. Upon impact with a target, the incendiary composition bursts into flame and will ignite flammable material.

Tabulated Data:

DODAC	1305-A202
UNO serial number	0012

UNO proper shipping	1
----------------------------	---

name	Cartridges for weapons, inert projectile
Weight	407 gr
Length	3.34 in. (84.8 mm)
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	
Incendiary:	
Type	IM 11
Weight	2 gr
Propellant:	
['] Type	WC 852
Weight	

Performance

Chamber	pressure54,00() psi
Velocity	2780 fps, 78 ft from
	muzzle

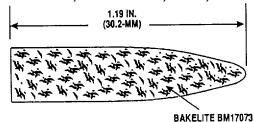
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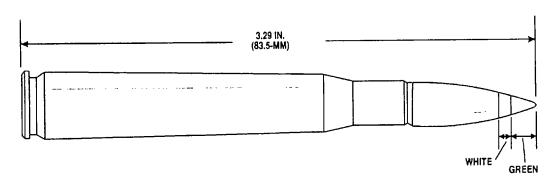
Quantity-distance class/	
SCG	1.4S
Storage code	Class V

DOT shipping class	С
DOT designation	SMALL ARMS
•	AMMUNITION
Drawing number	7638431

References:

CARTRIDGE, CALIBER .30, BALL, FRANGIBLE, M22





AR 5908

Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .30, M37 and M1919A4; and Rifle, Caliber .30, M1.

Description:

BALL Cartridge. The cartridge is identified by a green bullet tip with a white ring to the rear of the green color.

Function:

The bullet disintegrates upon striking a hard or armored target, leaving a pencil-like mark to indicate a hit during gunnery practice.

Tabulated Data:

DODAC	1305-A220
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectile
Weight	320 gr
Length	
Tracer	NΔ

Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	SR 4759
Weight	11 gr

Performance:

Chamber pressure	NA
Velocity	1320 fps, 53 ft from
•	muzzle

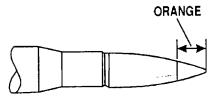
Shipping and Storage Data: Quantity-distance class/

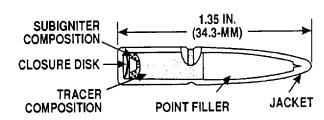
Quality distalled blass/	
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	
AMMUNITION	
Drawing number	7640951
3	

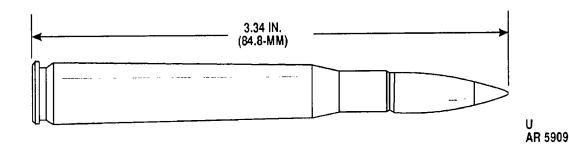
References:

SB 700-20 TM 9-1300-206

CARTRIDGE, CALIBER .30, TRACER, M25







Type Classification:

OBS - MSR 11756003. Use:

Machine Guns, Caliber .30, M37, M1917A1, M1919A4, and M1919A6; and Rifle, Caliber .30, M1. The cartridge is intended for use against personnel and unanmored targets.

Description:

TRACER Cartridge. The cartridge is identified by an orange bullet tip.

Function:

In flight, the bullet exhibits a trace of full luminosity from a point not greater than 75 yards from the muzzle of the weapon to a point not less than 900 yards from the muzzle.

Tabulated Data:

DODAC	1305-A230
UNO serial number	0012
UNO proper shipping	
name	
	weapons, inert
	projectile
Weight	401 gr
Length	3.34 in. (84.8 mm)
Tracer	R321
Primer	Percussion
Fuze	NA

⊢xnl	osive:

Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	WC 852
Weight	50 gr
Projectile:	_
Weight	145.5 gr
Performance:	· ·
Chamber pressure	50,000 psi

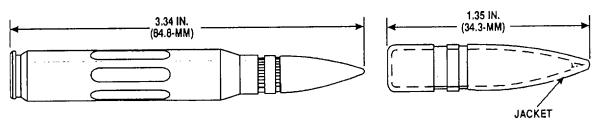
Shipping and Storage Data:

Quantity-distance class/ SCG	1 19
Storage code	
DOT shipping class	
DOT designation	
Drawing number	. 7640667 (brass
	case);
	7553949 (steel
	case)

muzzle

References:

CARTRIDGE, DUMMY, CALIBER .30, M40



U AR 5910

Type Classification:

STD - OTCM 37119.

Use:

All caliber .30 weapons except carbine. The cartridge is inert, and is used for practice in loading weapons, for simulated firing to detect flinching of personnel when firing, and for inspecting and testing the mechanisms of small arms weapons.

Description:

DUMMY Cartridge. The cartridge is identified by six 1-inch longitudinal corrugations (flutings) in the cartridge case. In addition, there is no primer.

Tabulated Data:

DODAC	1305-A226
Weight	268 gr
Length	
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	

Type NA

Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	NA
Weight	

Performance:

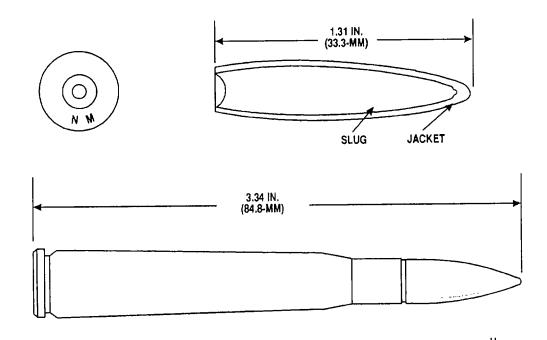
Chamber pressure	NA
Velocity	NA
Shipping and Storage Data:	

Quantity	y-distance	class/
Qualitity	y distance	Class

SCG	NA
Storage code	NA
DOT shipping class	
DOT designation	NONEXPLOSIVE
	AMMUNITION
Drawing number	7553591

References:

CARTRIDGE, CALIBER .30, BALL, MATCH, M72



Type Classification:

STD - OTCM 37119.

Use:

Rifle, Caliber .30, M1; and Rifle, Caliber .30, National Match. The cartridge is designed to be fired only in weapons designated as competition rifles.

Description:

BALL Cartridge. The cartridge is identified by head stampings on the base of the cartridge case with either the initials NM (National Match) or the word MATCH. The primer is uncrimped, the bullet has no crimped cannelure, and the case is not crimped to the bullet.

Tabulated Data:

DODACUNO serial numberUNO proper shipping	
name	. Cartridges for
	weapons, inert
	projectile
Weight	
Length	. 3.34 in. (84.8 mm)
Tracer	
Primer	. Percussion

	An Jan
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 4895
Weight	
Performance:	Ğ
Chamber pressure	50,000 psi
Velocity	
,	from muzzle

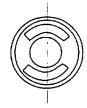
AR 5911

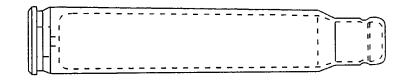
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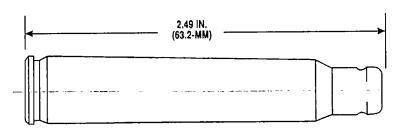
Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	8595432

References:

CARTRIDGE, CALIBER .30, BLANK, M1909







U AR 5912

Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .30, M1919A4 and M1919A6; and Rifle, Caliber .30, Ml. The cartridge is used for simulated firing in training or for saluting purposes.

Description:

BLANK Cartridge. The cartridge is identified by the absence of a bullet and has a crimped cartridge case mouth.

Tabulated Data:

DODAC	1305-A222
UNO serial number	0014
UNO proper shipping	
name	Cartridges for
	weapons, blank
Weight	218 gr
Length	2.49 in. (63.2 mm)
Tracer	NA
Primer	Percussion
Fuze	NA

⊢vn	osive:
	IUSIVE.

NA
NA
NA
NA
SR 4990
12 gr
J
NA
NA

Shipping and Storage Data:

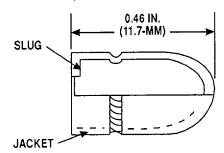
Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	
DOT designation	SMALL ARMS
3	AMMUNITION
Drawing number	6006152

References:

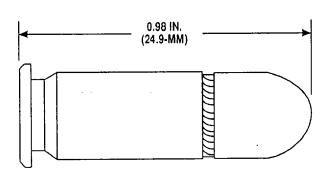
CHAPTER 6

CALIBER .32 CARTRIDGES

CARTRIDGE, CALIBER .32, BALL







U AR 5913

Type Classification:

Commercial.

Use:

Caliber .32 weapons. The cartridge is used in caliber .32 automatic pistols for defensive use against personnel.

Description:

BALL Cartridge.

Tabulated Data:

DODACUNO serial number	
name	Cartridges for
	weapons, inert
Weight	' '
Length	
Tracer	` ,
Primer	Percussion
Fuze	NA
Explosive:	

Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	MBR
Performance:	
Chamber pressure	15,000 psi
Velocity	900 fps, 15 ft from
•	muzzle

Type NA

Shipping and Storage Data:

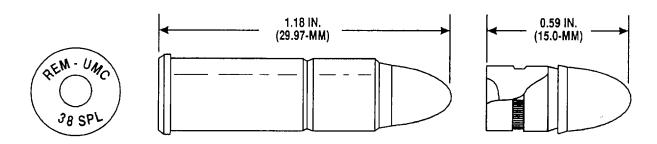
Quantity-distance class/	
SCG	. 1.4S
Storage code	. Class V
DOT shipping class	. C
DOT designation	. SMALL ARMS
_	AMMUNITION
Drawing number	. 10524631
References:	
SB 700-20	
TM 9-1005-206-14P/3	

6-3

TM 9-1300-206

CHAPTER 7 CALIBER.38 CARTRIDGES

CARTRIDGE, CALIBER .38, BALL



U AR 5914

Type Classification:

OBS - MSR 11756003.

Use:

Caliber .38 weapons. The cartridge is for CONUS-guard or security use in caliber .38 weapons.

Description:

BALL Cartridge. The cartridge has an unjacketed lead bullet.

Tabulated Data:

DODAC	1305-A408
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert projectile
Weight	
Length	
mm)	
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA

Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	MBR
Donformore	

Performance:

Chamber pressure	13,000 psi
Velocity	725 fps, 15 ft from
•	muzzle

Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
_	AMMUNITION
Drawing .number	10524005

References:

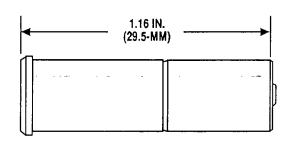
SB 700-20 TM 9-1005-206-14&P-1 TM 9-1005-206-14P/3 TM 9-1300-206 THIS PAGE INTENTIONALLY

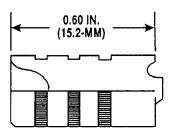
CARTRIDGE, CALIBER .38, BALL, SPECIAL, M41

Type Classification:		Туре	
OBS - MSR 08836015.		Weight Propellant:	NA
obe merrescours.		Type	SR 7325
Use:		Weight	4.8 gr
Revolver. The cartridge is intended defense hand guns.	for use in personal	Performance:	
Description:		Chamber pressure Velocityfrom	
BALL Cartridge. The cartridge has a	jacketed bullet.	muzzle	
Tabulated Data:		Shipping and Storage Data:	
DODAC	1305-A400	Quantity-distance class/	
UNO serial number	0012	SCG	
UNO proper shipping		Storage code	
name	Cartridges for	DOT shipping class	
	weapons, insert	DOT designation	
	projectile		AMMUNITION
Weight	203 gr	Drawing number	7553580
Length	1.55 in. (39.4		
mm)		References:	
Tracer	NA		
Primer	Percussion	SB 700-20	
Fuze	NA	TM 9-1005-206-14&P-1	
Explosive:		TM 9-1005-206-14P/3	
Type	NA	TM 9-1300-206	
Weight			
Incendiary:			

CARTRIDGE, CALIBER .38, WAD CUTTER







U AR 5915

Type Classification:

Commercial.

Use:

Revolver, Special, S & W, K-38. The cartridge is used only in pistol competition firing and marksmanship training.

Description:

WAD CUTTER Cartridge.

Function:

The bullet is designed with a concave forward end to act as a paper punch cutting a clean hole in targets.

Tabulated Data:

DODAC	1305-A404
UNO serial number	0012
UNO proper shipping	
name	
	weapons, inert
	projectile
Weight	
Length	
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:

Туре	NA
Weight	NA
Incendiary:	
Туре	NA
Weight	NA
Propellant:	
Туре	Smokeless powder
Weight	MBR

Performance:

Chamber pressure	16,000 psi
Velocity	
•	muzzle

Shipping and Storage Data:

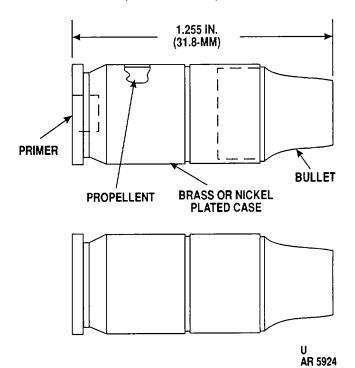
1.4S
Class V
C
SMALL ARMS
AMMUNITION
10521459

References:

SB 700-20 TM 9-1005-206-14&P-1 TM 9-1005-206-14P/3 TM 9-1300-206

CHAPTER 8 CALIBER .45 CARTRIDGES

CARTRIDGE, CALIBER .45, WAD CUTTER



Type Classification:

OBS - MSR 08836015.

Use:

Pistol, Caliber .45, M1911A1; and Pistol, Caliber .45, National Match.

Description:

<u>WAD CUTTER</u> Cartridge. The cartridge is identified by the bullet shape which has the general appearance of a truncated cone.

Function:

The ogive of the bullet has a sharp shoulder that acts as a hole punch to cut a clean hole in the target.

Tabulated Data:

1305-A482
0012
Cartridges for
weapons, inert
projectile

Weight	330 gr
Length	1.255 in. (31.8 mm)
Tracer	` ,
Primer	Percussion
Fuze	
	NA .
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	MBR
5	

Performance:

Chamber pressure	18,000 psi
Velocity	765 fps, 15 ft from
	muzzle

Shipping and Storage Data:

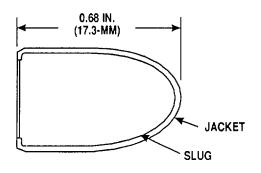
Quantity-distance class/	
SCG	1.4S
Storage code	Class V

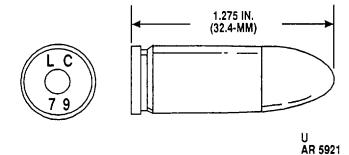
DOT shipping class	C
DOT designation	SMALL ARMS
-	AMMUNITION
Drawing number	10521458

References:

SB 700-20 TM 9-1005-211-12 TM 9-1300-206

CARTRIDGE, CALIBER .45, BALL, HIGH PRESSURE TEST, M1





Type Classification:

STD - OTCM 36841.

Use:

Test of all caliber .45 weapons. The cartridge is for proof testing caliber .45 pistols and submachine guns during manufacture, test, or repair.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by a stannic-stained (silvered) cartridge case.

Tabulated Data:

DODAC	1305-A480
UNO serial number	0012
UNO proper shipping name	Cartridges for
	weapons, inert
	projectile
Weight	332 gr
Length	
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA

Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	SR 7970
Weight	7 gr

Performance:

Chamber pressure	22,000 psi
Velocity	NA .

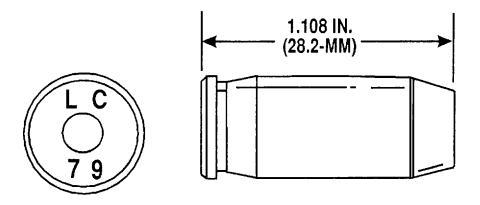
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	
_	AMMUNITION
Drawing number	C6000502

References:

SB 700-20 TM 9-1005-211-12 TM 9-1005-229-12 TM 9-1300-206

CARTRIDGE, CALIBER .45, BLANK, M9



U AR 5918

Type Classification:

STD - AMCTC 505.

Use:

Pistol, Automatic, Caliber .45, M1911A1. The cartridge is used for simulated firing in training maneuvers and for saluting purposes.

Description:

<u>BLANK</u> Cartridge. The cartridge is identified by the absence of a bullet and the tapered mouth of the cartridge case.

Tabulated Data:

-1305-A476
-0014
-Cartridges for
weapons, blank
-104 gr
-1.108 in. (28.2 mm)
-NA
-Percussion
-NA

Explosive:	
Type	
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	SR 4990
Weight	10 gr

Performance:

Chamber pressure	NA
Velocity	NA

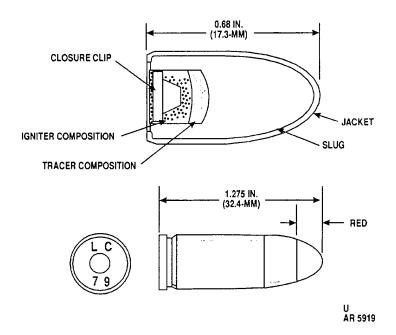
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	С
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	10523805

References:

SB 700-20 TM 9-1005-211-12 TM 9-1300-206

CARTRIDGE, CALIBER .45, TRACER, M26



Type Classification:

CON - MSR 11756003.

Use:

Submachine Gun, Caliber .45, M3A1; and Pistol, Caliber .45, M1911A1. The tracer is intended to permit observation of the bullet's in-flight path or trajectory to the point of impact.

Description:

 $\underline{\mathsf{TRACER}}$ Cartridge. The cartridge is identified by a red bullet tip.

Tabulated Data:

DODAC	-1305-A479
UNO serial number	-0012
UNO proper shipping	
name	
	weapons, inert
	projectile
Weight	
Length	
Tracer	-R256
Primer	
Fuze	-NA

Expl	osive:

Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	SR 7970
Weight	6 gr

Performance:

Chamber pressure	19,000 psi
Velocity	885 fps, 25.5 ft
-	from muzzle

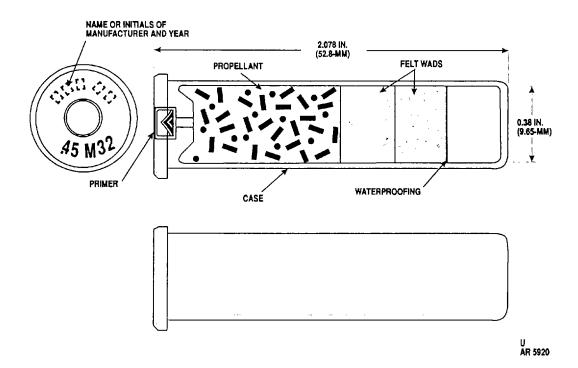
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	С
DOT designation	
-	AMMUNITION
Drawing number	10534359

References:

SB 700-20 TM 9-1005-211-12 TM 9-1005-229-12 TM 9-1300-206

CARTRIDGE, CALIBER .45, LINE THROWING, M32



Type Classification:

STD A - OTCM 36841.

Use:

Line Throwing Gun, Caliber .45/.70.

Description:

LINE THROWING Cartridge. The cartridge is composed of a brass case, primer, commercial smokeless powder; and two felt wads coated on both sides with gummed paper. The wads are sealed with red lacquer. The cartridge case mouth is crimped to prevent entry of the line throwing rod.

Function:

The line throwing rod is placed in the weapon barrel. Cartridge initiation provides pressure to force the rod out of the barrel and propel the line to the target.

Tabulated Data:

DODAC	1305-A477
LINO serial number	0014

1 -1 11 3	
name	Cartridges for
	weapons, blank
Weight	192 gr
Length	2.078 in. (52.8 mm)
Tracer	NA `
Primer	Percussion
Fuze	NA
Explosive:	
. Type	NA
Weight	NA
Incendiary:	
Type	NA

Propellant:
Type ------ Smokeless powder
Weight----- MBR

Performance:

UNO proper shipping

Chamber pressure	20,000 psi
Velocity	NA

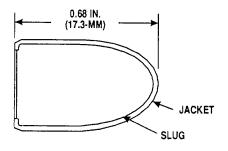
Weight----- NA

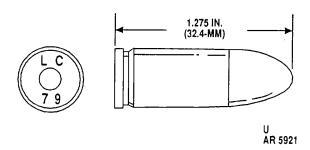
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V

DOT shipping class	C	References:
DOT designation	SMALL ARMS	
-	AMMUNITION	SB 700-20
Drawing number	7553068	TM 9-1300-206

CARTRIDGE, CALIBER .45, BALL, M1911





Type Classification:

STD - OTCM 36841.

Use:

Submachine Gun, Caliber .45, M3A1; and Pistol, Caliber .45, M1911A1. The cartridge is intended for use against personnel.

Description:

 $\underline{\mathsf{BALL}}$ Cartridge. The cartridge is identified by the plain bullet tip.

Tabulated Data:

1305-A475
0012
Cartridges for
weapons, inert
projectile
331 gr
1.275 in. (32.4 mm)
NA `
Percussion
NA

_	
⊢vn	losive:
$-\lambda \rho$	IOSIVC.

Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	
Propellant:	
. Type	SR 7970
Weight	
<u>-</u>	-

Performance:

Chamber pressure	19,000 psi
Velocity	885 ± 25 fps,
•	25.5 ft from muzzle

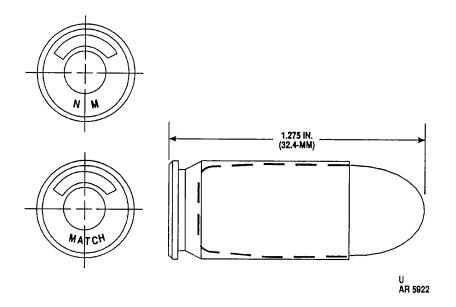
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	С
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	6000503

References:

SB 700-20 TM 9-1005-211-12 TM 9-1005-229-12 TM 9-1300-206

CARTRIDGE, CALIBER .45, BALL, MATCH, M1911



Type Classification:

STD - OTCM 36841.

Use:

Pistol, Caliber .45, M1911A1; and Pistol, Caliber .45, National Match. The cartridge is to be used only in those weapons designated as competition pistols.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by head stampings, either NM (National Match) or MATCH, on the base of the cartridge case.

Tabulated Data:

DODAC	1305-A483
UNO serial number	-0012
UNO proper shipping	
name	-Cartridges for
	weapons, inert pro-
	jectile
Weight	-334 gr
Length	-1.275 in. (32.4 mm)
Tracer	-NA
Primer	
Fuze	-NA

ХI	1105IVE
^\P	losive:

Explosive.	
Type	
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	SR 7970
Weight	5 gr

Performance:

Chamber pressure	19,000 psi
Velocity	$885 \pm 25 \text{ fps},$
•	25.5 ft from muzzle

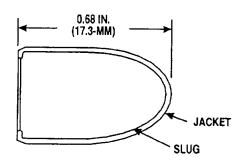
Shipping and Storage Data:

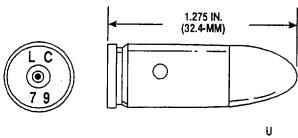
Quantity-distance class/	
SCG 1.4S	
Storage code NA	
DOT shipping class C	
DOT designation SMALL ARM	S
AMMUNITIO	Ν
Drawing number 8596136	

References:

SB 700-20 TM 9-1005-211-12 TM 9-1300-206

CARTRIDGE, DUMMY, CALIBER .45, M1921





U AR 5923

Type Classification:

STD - OTCM 36841.

Use:

Submachine Gun, Caliber .45, M3A1; and Pistol, Caliber .45, M1911A1. The cartridge is used during simulated firing exercises to detect flinching of personnel when firing, and to inspect and test the mechanism of the weapons.

Description:

<u>DUMMY</u> Cartridge. The cartridge is identified by the drilled holes in the cartridge case and the absence of a primer.

Tabulated Data:

DODAC	1305-A501
Weight	305 gr
Length	1.275 in. (32.4 mm)
Tracer	NA `
Primer	NA
Fuze	NA
Explosive:	
. Type	NA
Weight	NA

Incendiary:	
Type !	NΑ
Weight I	NΑ
Propellant:	

Type ----- NA Weight----- NA

Performance:

Chamber pressure ----- NA Velocity ----- NA

Shipping and Storage Data:

Quantity-distance class/ SCG ------ NA Storage code------ NA DOT shipping class----- NA DOT designation ----- NONEXPLOSIVE

AMMUNITION Drawing number------ 6006253

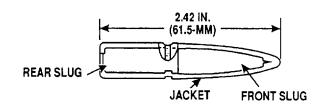
References:

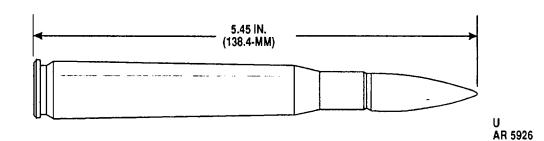
SB 700-20 TM 9-1005-211-12 TM 9-1005-229-12 TM 9-1300-206

CHAPTER 9 CALIBER .50 CARTRIDGES

CARTRIDGE, CALIBER .50, BALL, HIGH PRESSURE TEST, M1







Type Classification:

STD - OTCM 36841.

Use:

All caliber .50 weapons except M8C Spotting Gun. The cartridge is intended for use in proof testing caliber .50 weapons (except the 106mm Spotting Rifle) during manufacture, test, or repair.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by a stannic-stained (silvered) cartridge case.

Tabulated Data:

DODAC	1305-A575
UNO serial number	0339
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	
Length	
Tracer	
Primer	Percussion
Fuze	NA

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	
Weight	NA
Propellant:	
Type	
Weight	240 gr

Performance:

Chamber pressure	65,000 ps	i
Velocity	NA	

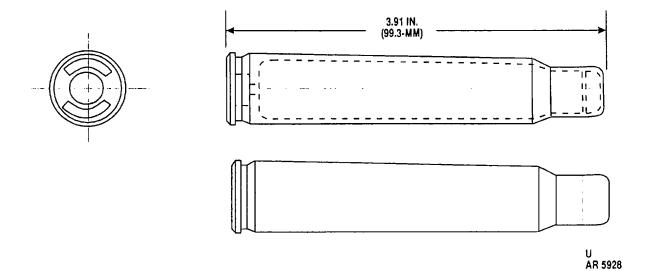
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	С
DOT designation	SMALL ARMS
-	AMMUNITION
Drawing number	5544097

References:

SB 700-20 TM 9-1005-213-10 TM 9-1005-231-10 TM 9-1300-206

CARTRIDGE, CALIBER .50, BLANK, M1



Type Classification:

CONT - OTCM 36841.

Use:

Machine Gun, Caliber .50, M2 (flexible only). The cartridge is used to simulate firing in training exercises.

Description:

<u>BLANK</u> Cartridge. The cartridge is identified by the absence of a bullet and has crimped cartridge case mouth.

Tabulated Data:

DODAC	1305-A558
UNO serial number	0338
UNO proper shipping	
name	
	weapons, blank
Weight	917 gr
Length	3.91 in. (99.3 mm)
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 150
Weight	46 gr

Performance:

Chamber pressure	NΑ
Velocity	NA

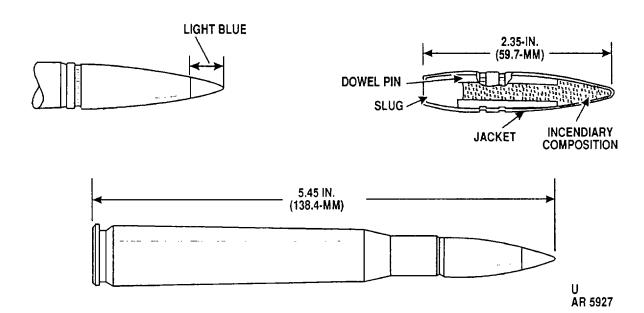
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	С
DOT designation	
-	AMMUNITION
Drawing number	7673517

References:

SB 700-20 TM 9-1005-213-10 TM 9-1005-231-10 TM 9-1300-206

CARTRIDGE, CALIBER .50, INCENDIARY, M1



Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

INCENDIARY Cartridge. The cartridge is identified by a blue bullet tip.

Function:

Upon impact with a hardened or armored target, the incendiary composition bursts into flame and will ignite any flammable material.

Tabulated Data:

DODAC	1305-A562
UNO serial number	0300
UNO proper shipping	
name	Ammunition,
	incendiary
Weight	1744 gr
Length	
Tracer	NA
Primer	Percussion
Fuze	NA

EXD	losive:

Type	NA
Weight	NA
Incendiary:	
Type	IM 11
Weight	34 gr
Propellant:	•
Type	WC 860
Weight	240 gr
_	_

Performance:

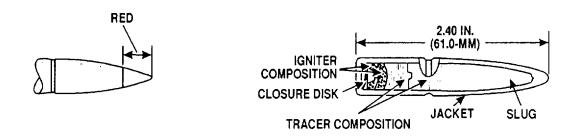
Chamber pressure	54,000 psi
Velocity	2950 fps, 78 ft from
	muzzle

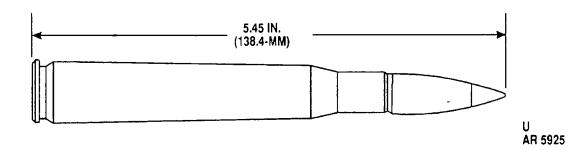
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	С
DOT designation	
•	AMMUNITION
Drawing number	5579812

References:

CARTRIDGE, CAL, IBER .50, TRACER, M1





Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .50, M2 and M85. The tracer is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact. Limited to CONUS for training purposes only.

Description:

TRACER Cartridge. The cartridge is identified by a red bullet tip.

Tabulated Data:

DODAC	1305-A591
UNO serial number	0362
UNO proper shipping	
name	Ammunition, practice
Weight	1785 gr
Length	5.45 in. (138.4 mm)
Tracer	R256
Primer	Percussion
Fuza	ΝΔ

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	
Weight	NA
Propellant:	
Type	IMR 5010

Weight----- 240 gr

Performance:

Chamber pressure	52,000 psi
Velocity	2700 fps, 78 ft from
	muzzle

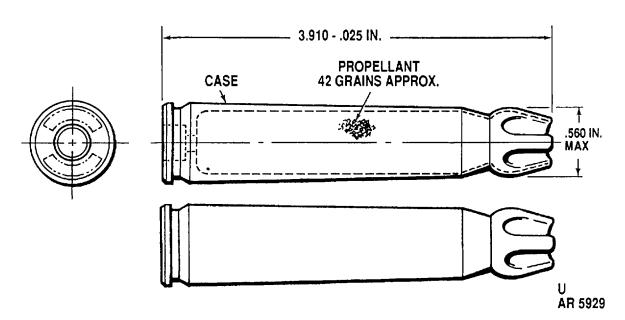
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	С
DOT designation	
G	AMMUNITION
Drawing number	5544843

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, CALIBER .50, BLANK, M1A1



Type Classification:

STD - MSR 02806015.

Use:

Machine Gun, Caliber .50, M2 with the M19 Blank Ammunition Firing Attachment; and Machine Gun, Caliber .50, M85 with the M20 Blank Firing Attachment. The cartridge is used to simulate firing in training exercises.

Description:

BLANK Cartridge. The cartridge is identified by the absence of a bullet. The M1A1 differs from the M1 in that the M1A1 has a rosette crimp at the mouth. Also, the M1A1 is loaded with Dupont Hi Skor 700X propellant.

Tabulated Data:

DODAC	1305-A559
UNO serial number	0338
UNO proper shipping	
name	Cartridges for
	weapons, blank
Weight	915 to 955 gr
Length	
Tracer	NA
Primer	Percussion

Fuze	NA
Explosive:	
Type	
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	Dupont Hi Skor
	700X
Weight	42 gr

Performance:

Chamber pressure	NA
Velocity	NA

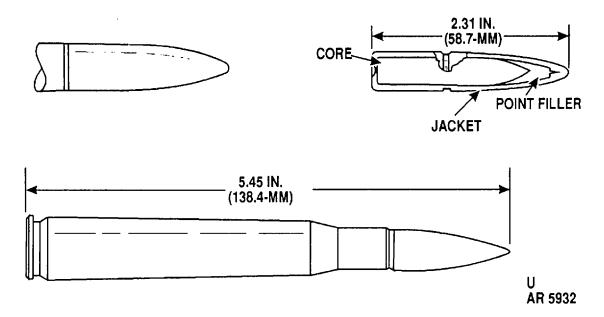
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	С
DOT designation	SMALL ARMS
_	AMMUNITION
Drawing number	9341551

References:

DARCOM 700-3-2

CARTRIDGE, CALIBER .50, BALL, M2



Type Classification:

STD - OTCM 36841.

Use:

Machine Guns, Caliber .50, M2 and M85. The cartridge is intended for use against personnel or unarmored targets.

Description:

 $\underline{\mathsf{BALL}}$ Cartridge. The cartridge is identified by a plain bullet.

Tabulated Data:

DODAC	-1305-A552
UNO serial number	-0339
UNO proper shipping	
name	-Cartridges for
	weapons, inert pro-
	jectile
Weight	-1813 gr
Length	
Tracer	-NA
Primer	-Percussion
Fuze	_

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	
Weight	NA
Propellant:	
Type	WC 860
Weight	235 gr

Performance:

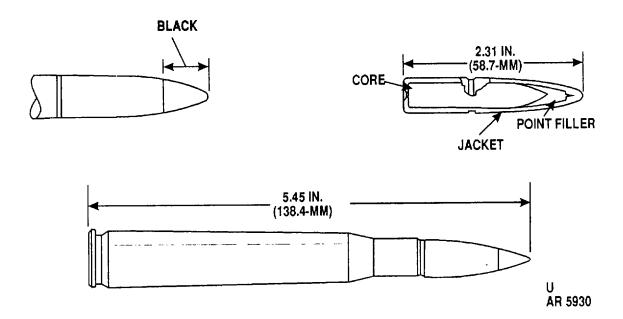
Chamber pressure	55,000 psi
Velocity	2810 fps, 78 ft from
	muzzle

Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	
DOT shipping class	С
DOT designation	
-	AMMUNITION
Drawing number	5577960

References:

CARTRIDGE, CALIBER .50, BALL, ARMOR PIERCING, M2



Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .50, M2 and M85. The cartridge is for use against light-armored or unarmored targets, concrete shelters, and similar bullet-resisting targets.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by a black bullet tip.

Tabulated Data:

DODAC	1305-A526
UNO serial number	0339
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	1812 gr
Length	5.45 in. (138.4 mm)
Tracer	NA
Primer	Percussion
Fuze	NA

Type	. NA
Weight	
Incendiary:	
Type	. NA
Weight	. NA
Propellant:	
Type	WC 860
Weight	. 235 gr

Performance:

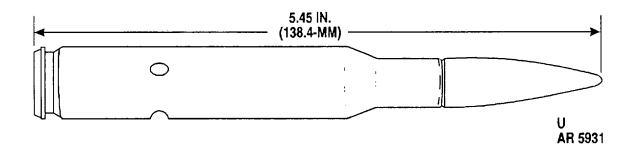
Chamber pressure	. 53,000 psi
Velocity	. 2810 fps, 78 ft from
	muzzle

Shipping and Storage Data:

Quantity-distance cla	ass/
SCG	1.4C
Storage code	Class V
DOT shipping class.	C
DOT designation	
_	AMMUNITION
Drawing number	5569930

References:

CARTRIDGE, DUMMY, CALIBER .50, M2



Type Classification:

STD - OTCM 36841.

Use:

All caliber .50 weapons except MSC Spotting Gun. The cartridge is used for practice in loading for simulated firing and for inspecting and testing the mechanism of the weapon.

Description:

<u>DUMMY</u> Cartridge. The cartridge is identified by three drilled holes in the cartridge case and the absence of a primer.

Tabulated Data:

DODAC	1305-A560
Weilt	1248 gr
Length	5.45 in. (138.4 mm)
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	

NA
NA
NA
NA

Performance:

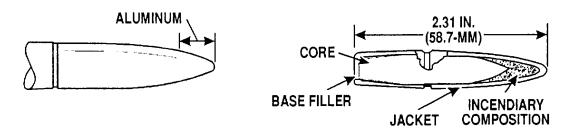
Chamber pressure	NA
Velocity	NA

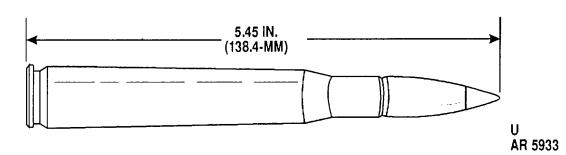
Shipping and Storage Data:

Quantity-distance class/	
SCG	NA
Storage code	NA
DO'I' shipping class	
DOT designation	
· ·	AMMUNITION
Drawing number	556579

References:

CARTRIDGE, CALIBER .50, BALL, ARMOR PIERCING INCENDIARY, M8





Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .50, M2 and M85. The cartridge combines the functions of the M2 armor piercing bullet and the incendiary bullet, and is used against flammable targets and light-armored or unarmored targets, concrete shelters, and similar bullet-resisting targets.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by an aluminum bullet tip.

Tabulated Data:

DODAC UNO serial number UNO proper shipping	
name	Ammunition,
	incendiary
Weight	1764 gr
Length	5.45 in. (138.4 mm)
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA

Weight	NA	
Incendiary:		
Type		IM 11
Weight		
Propellant:		
Type		WC 860
Weight	233 gr	
Projectile:	_	
Weight	622.5 g	r
Type Weight	233 gr	

Performance:

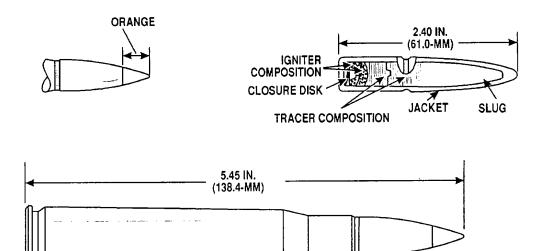
Chamber pressure	. 59,000 psi
Velocity	. 2910 fps, 78 ft from
	muzzle

Shipping and Storage Data:

Quantity-distance cla	ss/
SCG	1.4G
Storage code	Class V
DOT shipping class	C
DOT designation	
-	AMMUNITION
Drawing number	7970238

References:

CARTRIDGE, CALIBER .50, TRACER, M10



Type Classification:

STD - OTCM 37107.

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

TRACER Cartridge. The cartridge is identified by an orange bullet tip.

Function:

The tracer cartridge exhibits a visible trace from a point not greater than 100 yards from the muzzle of the weapon to a point not less than 1,600 yards from the muzzle.

Tabulated Data:

DODAC	1305-A570
UNO serial number	0339
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	1752 gr
Length	5.45 in. (138.4 mm)
Tracer	R256
Primer	Percussion
Fuze	NA
Length Tracer Primer	5.45 in. (138.4 mm R256 Percussion

-yn	losive.	

Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 5010
Weight	240 gr

Performance:

Chamber pressure	54,000 psi
Velocity	2860 fps, 78 ft from
muzzle	

AR 5934

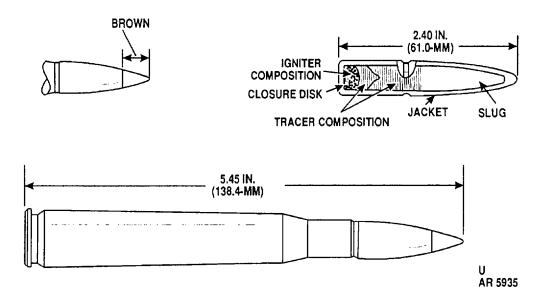
Shipping and Storage Data:

Quantity-distance cla	iss/
SCG	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
AMMUNITION	
Drawing number	7670296

References:

SB 700-20
TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206

CARTRIDGE, CALIBER .50, TRACER, M17



Type Classification:

CON - MSR 11756003.

Use:

Machine Guns, Caliber .50, M2 and M85. The cartridge tracer is intended to permit visible observation of the bullets in-flight path or trajectory to the point of impact.

Description:

TRACER Cartridge. The cartridge is identified by a brown bullet tip.

Tabulated Data:

UNO serial number	. 0339
UNO proper shipping	
name	. Cartridges for
	weapons, inert pro-
	jectile
Weight	. 1732 gr
Length	. 5.45 in. (138.4 mm)
Tracer	
Primer	. Percussion
Fuze	. NA

DODAC...... 1305-A571

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 5010
Weight	225 gr

Performance:

Chamber pressure	54,000 psi
Velocity	2860 fps, 78 ft from
	muzzle

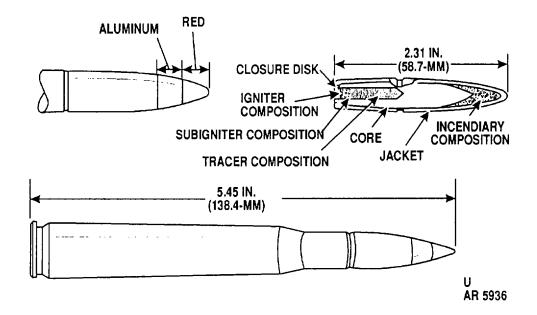
Shipping and Storage Data:

Quantity-distance class/

SCG	1.4C
Storage code	Class V
DOT shipping class.	C
DOT designation	
•	AMMUNITION
Drawing number	7672165

References:

CARTRIDGE, CALIBER .50, BALL, ARMOR PIERCING INCENDIARY-TRACER, M20



Type Classification:

OBS - MSR 04776009.

Use:

Machine Guns, Caliber .50, M2 and M85. The cartridge combines the functions of the armor piercing and the incendiary bullet, and is used against flammable targets and light-armored or unarmored targets, concrete shelters, and similar bullet-resisting targets.

Description:

BALL Cartridge. The cartridge is identified by a red bullet tip with an aluminum colored ring to the rear of the red tip.

Tabulated Data:

DODAC	1305-A542
UNO serial number	0300
UNO proper shipping	
name	Ammunition,
	incendiary
Weight	1718 gr
Length	5.45 in. (138.4 mm)
Tracer	R256
Primer	Percussion
Fuze	NA

_	
Lvn	OCIVO:
	losive:

Type	NA
Weight	
Incendiary:	
Type	IM 161
Weight	27 gr
Propellant:	_
Type	IMR 5010
Weight	230 gr
Projectile:	
Weight	619 gr

Performance:

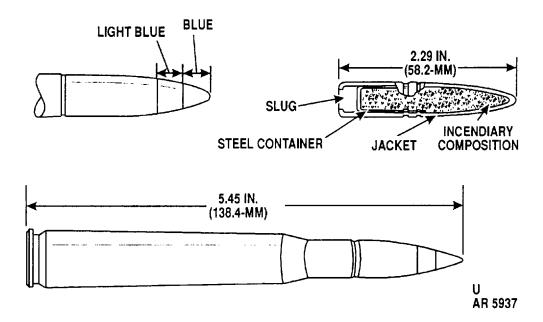
Chamber pressure	. 55,000 psi
Velocity	. 2910 fps, 78 ft from
	muzzle

Shipping and Storage Data:

Quantity-distance cla	iss/
SCG	1.4G
Storage code	Class V
DOT shipping class	C
DOT designation	
-	AMMUNITION
Drawing number	7672003

References:

CARTRIDGE, CALIBER .50, INCENDIARY, M23



Type Classification:

STD - OTCM 36841.

Use:

Machine Guns, Caliber .50, M2 and M85. The cartridge is used against flammable targets.

Description:

<u>INCENDIARY</u> Cartridge. The cartridge is identified by a blue bullet tip with a light blue ring to the rear of the blue tip.

Purpose:

The cartridge is capable of initiating combustion of flammable materials upon target impact at 175 yards.

Tabulated Data:

DODAC	1305-A563
UNO serial number	0300
UNO proper shipping	
name	Ammunition,
incendiary	
Weight	1581 gr
Length	
Tracer	NA

Primer----- Percussion

Fuze Explosive:	NA
Туре	NA
Weight	
Incendiary:	
Type	IM 28
Weight	90 gr
Propellant:	
Type	IMR 4831
Weight	
Performance:	-
Chamber pressure	58 000 pc

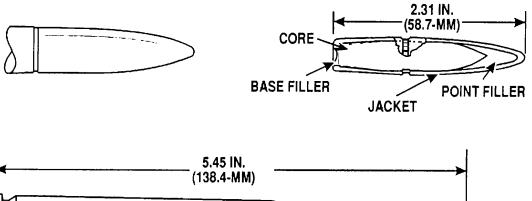
Chamber pressure	. 58,000 psi
Velocity	3400 fps, 78 ft from
	muzzle

Shipping and Storage Data:

IS
N

References:

CARTRIDGE, CALIBER .50, BALL, M33



5.45 IN. (138.4-MM)

Type Classification:

STD - OTCM 36841.

Use:

Machine Guns, Caliber .50, M2 and M85. The cartridge is intended for use against personnel or unarmored targets.

Description:

 $\underline{\mathsf{BALL}}$ Cartridge. The cartridge is identified by a plain bullet tip.

Tabulated Data:

UNO serial number UNO proper shipping	0339
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	1762 gr
Length	5.45 in. (138.4 mm)
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA

DODAC......1305-A552

Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 860
Weight	235 gr

Performance:

Chamber pressure	55,000 psi
Velocity	2910 fps, 78 ft from
- -	muzzle

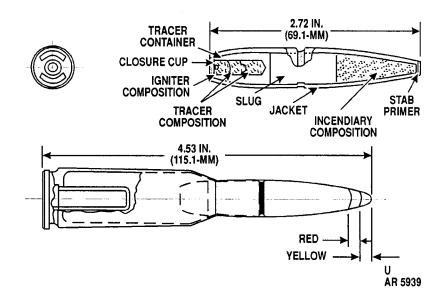
Shipping and Storage Data:

Quantity-distance cla	ass/
SCG	1.4C
Storage code	Class V
DOT shipping class.	C
DOT designation	
	AMMUNITION
Drawing number	7553097

References:

SB 700-20
TM 9-1005-213-10
TM 9-1005-231-10
TM 0-1300-206

CARTRIDGE, CALIBER.50, BALL, SPOTTER-TRACER, M48A1



Type Classification:

STD - AMCTC 7378.

Use:

Rifle, Spotting, Caliber .50, M8C.

Description:

BALL Cartridge. The cartridge has specific features which aid in identification. The cartridge case has a distinctive body design which prevents chambering in other weapons. The total length is only 4.5 inches in comparison with 5.5 inches for a standard round. The bullet has a yellow tip with a red ring to the rear of the yellow tip.

Function:

In flight, the bullet exhibits a visible trace from a point not greater than 100 yards from the muzzle of the weapon to a point not less than 1,500 yards from the muzzle. The bullet will detonate and produce a flash and a puff of smoke upon impact against a steel plate placed at 175 yards from the muzzle of the weapon at all angles from 90° to 11° with respect to the horizontal.

Difference Between Models:

The M48A1 differs from the M48A2 in that the M48A1 has a primer in the point of the bullet.

Tabulated Data:

DODAC	1305-A574
UNO serial number	0339
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	1744 gr
Length	4.53 in. (115.1 mm)
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA Incendiary:
Type	
Weight	
Propellant:	Ŭ
	IMR 7383
Weight	
- 3	- 0

Performance:

Chamber pressure 38,000 psi
Velocity 1745 fps, 78 ft from
muzzle

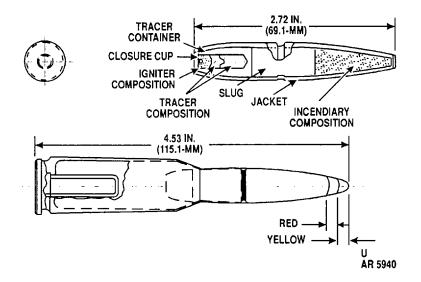
Shipping and Storage Data:

Quantity-distance clas	s/
SCG	1.4C
Storage code	Class V

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, CALIBER .50, BALL, SPOTTER-TRACER, M48A2



Type Classification:

STD - AMCTC 7378.

Use:

Rifle, Spotting, Caliber .50, M8C.

Description:

<u>BALL</u> Cartridge. The cartridge has specific features which aid in identification. The cartridge case has a distinctive body design which prevents chambering in other weapons. The total length is only 4.5 inches in comparison with 5.5 inches for a standard round. The bullet has a yellow tip with a red ring to the rear of the yellow tip.

Function:

In flight, the bullet exhibits a visible trace from a point not greater than 100 yards from the muzzle of the weapon to a point not less than 1,500 yards from the muzzle. The bullet will detonate and produce a flash and a puff of smoke upon impact against a steel plate placed at 175 yards from the muzzle of the weapon at all angles from 90° to 11° with respect to the horizontal.

Difference Between Models:

The M48A2 differs from the M48A1 in that the M48A2 does not have a primer in the point of the bullet.

Tabulated Data:

DODAC
name Cartridges for
weapons, inert pro-
jectile
Weight 1744 gr
Length 4.53 in. (115.1 mm)
Tracer R321
PrimerPercussion
FuzeNA
Explosive:
Type NA
Weight NA
Incendiary:
Type IM 144
Weight 32 gr
Propellant:
Type IMR 7383
Weight110 gr
Projectile:
Weight 833 gr

Performance:

Chaml	ber pressure	38,000 ps	Sİ
Veloci	ty	1745 fps,	78 ft from
muzzle	9		

Shipping and Storage Data:

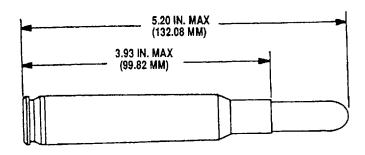
Quantity-distance class/	
SCG	1.4C
Storage code	Class \

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, CALIBER .50, BALL, PLASTIC PRACTICE, M858





U AR 5943

AMMUNITION

NΙΛ

Type Classification:

STD - dated 24 May 1983.

Use:

Machine Gun, Caliber .50, with the M3 Recoil Amplifier. The cartridge is intended for scaled range training purposes.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by the blue bullet and case which are molded into one piece with high density polyethylene plastic.

1305-4603

Tabulated Data:

DODAC

DODAG	1303-4003
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	460 gr
Length	5.2 in. (132.08 mm)
Tracer	NA
Primer	Percussion
Fuze	NA

-	losive:
·vn	IUGINE.
-72	IOSIVC.

Type	NA
Weight	NA
Incendiary:	
Type	
Weight	NA
Propellant:	
Type	10B101
Weight	49 gr
Performance:	
Chamber pressure	
Velocity	2790 fps, 78 ft from
muzzle	
Maximum range	700 m
Shipping and Storage	Data:
Quantity-distance class	s/
SCG	
Storage code	
DOT shipping class	C

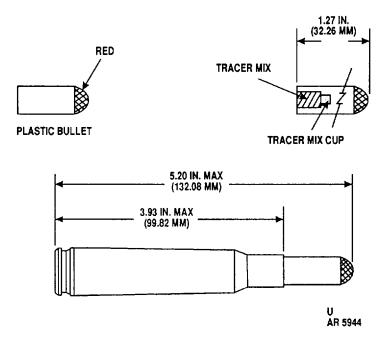
DOT designation SMALL ARMS

Drawing number...... 9340557

References:

SB 700-20
TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206

CARTRIDGE, CALIBER .50, TRACER, PLASTIC PRACTICE, M860



Type Classification:

STD - dated 24 May 1983.

Use:

Machine Gun, Caliber .50, M2 with the M3 Recoil Amplifier. The cartridge tracer is intended for scaled range training to permit visible observation of the bullet's in-flight path or trajectory to the point of impact. The cartridge is intended for use with the M858 Plastic Practice Ball Cartridge.

Description:

TRACER Cartridge. The cartridge is identified by a red bullet tip and the blue bullet and case which are molded into one piece with high density polyethylene plastic.

Tabulated Data:

DODAC UNO serial number UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	460 gr
Length	5.2 in. (132.08 mm)
Tracer	DAG9591254/4
Primer	Percussion
Fuze	NA

Explosive:	
Туре	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	10B101

Weight 49 gr

Performance:

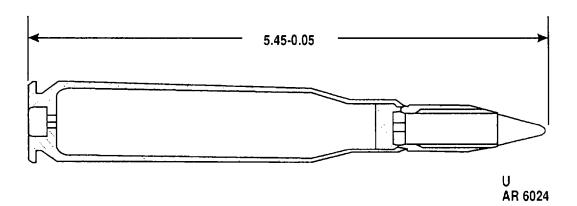
Chamber pressure	26,100 psi
Velocity	2790 fps, 78 ft from
muzzle	
Maximum range	700 m
Trace	

Shipping and Storage Data:

Quantity-distance class/
SCG 1.4S
Storage code Class S
DOT shipping class C
DOT designation SMALL ARMS
AMMUNITION
Drawing number 9340558

References:

CARTRIDGE, CALIBER .50, SABOTED LIGHT ARMOR PENETRATOR (SLAP), M903



Type Classification:

STD - 31 March 1993.

Use:

Machine Gun, Caliber .50, M2HB. The cartridge is to be used by soldiers equipped with M2 machine guns.

Description:

<u>COMBAT</u> Cartridge. The cartridge is identified by an amber sabot (Ultem 1000).

Tabulated Data:

DODAC	1305-A518
UNO serial number	0012
UNO proper shipping	
name	
	weapons, inert pro-
	jectile
Weight	1466 gr
Length	5.45 in. (138.4 m)
Tracer	NA
Primer	Percussion

Fuze	NA
Explosive:	
Type	
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 856
Weight	275 gr
Projectile:	_
Weight	355-360 gr

Performance:

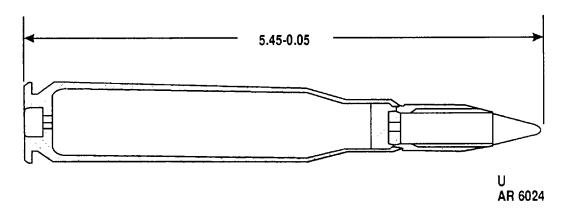
Chamber pressure	55,000 psi
Velocity	4000 fps, 78 ft from
	muzzle

Shipping and Storage Data:

Quantity-distance cla	ass/
SCG	1.4
Storage code	C
DOT shipping class.	C
DOT designation	CARTRIDGES
•	SMALL ARMS
	UN0339

9-40

CARTRIDGE, CALIBER .50, SABOTED LIGHT ARMOR PENETRATOR-TRACER (SLAP-T), M962



Type Classification:

STD - 31 March 1993.

Use:

Machine Gun, Caliber .50, M2HB. The cartridge is to be used by soldiers equipped with M2 machine guns.

Description:

<u>COMBAT</u> Cartridge. The cartridge is identified by a red sabot (Ultem 1000).

Tabulated Data:

DODACUNO serial number	
name	. Cartridges for
	weapons, inert pro-
	jectile
Weight	. 1466 gr
Length	. 5.45 in. (138.4 mm)
Tracer	R543
Primer	Percussion
Fuze	. NA

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 856
Weight	282 gr
Projectile:	_
Weight	350-360 gr
_	•

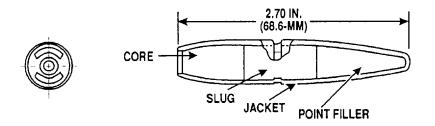
Performance:

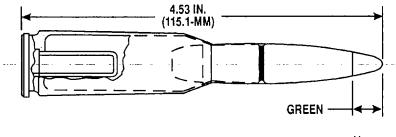
Chamber pressure	. 55,000 psi
Velocity	. 4000 fps, 78 ft from
	muzzle

Shipping and Storage Data:

Quantity-distance cla	ass/
SCG	1.4
Storage code	C
DOT shipping class.	C
DOT designation	CARTRIDGES
_	SMALL ARMS
	UN0339

CARTRIDGE, CALIBER .50, BALL, PRACTICE, T249E2





U AR 5941

Type Classification:

Not applicable.

Use:

Rifle, Spotting, Caliber .50, M8C. The cartridge is used as a less expensive substitute for the M48 series spotter-tracer cartridges. The item uses a small amount of Sodium Carbonate Monohydrate as its spotting charge. It is similar to using a flour bag as a bomb.

Description:

BALL Cartridge. The cartridge is a duplicate of the M48 series cartridges, a less expensive model used for practice. It is identified by a green bullet tip. It has no tracer or incendiary filler.

Tabulated Data:

DODAC	1305-A579
UNO serial number	0339
UNO proper shipping	
name	
	weapons, inert pro-
	jectile
Weight	
Length	4.53 in. (115.1 mm)
_	
Tracer	
Primer	Percussion

Fuze	. NA
Explosive:	
Type	. NA
Weight	. NA
Incendiary:	
Type	. NA
Weight	. NA
Propellant:	
Туре	. IMR 7383
Weight	. 110 gr
Projectile:	
Weight	. 817 gr

Performance:

Chamber pressure	. 38,000 psi
Velocity	. 1745 fps, 78 ft from
muzzle	

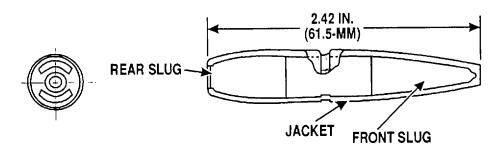
Shipping and Storage Data:

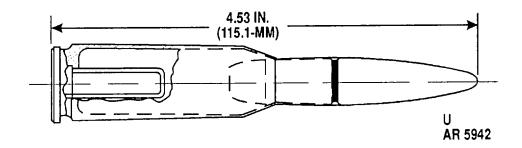
Quantity-distance class/	1
SCG	1.4C
Storage code	Class V
DOT shipping class	С
DOT designation	SMALL ARMS
_	AMMUNITION
Drawing number	10534667

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, CALIBER .50, BALL, HIGH PRESSURE TEST, T251





Type Classification:

Not applicable.

Use:

Rifle, Spotting, Caliber .50, M8C. The cartridge is used in proof testing the caliber .50 M8C Spotting Rifle during manufacture, test, or repair.

Description:

<u>BALL</u> Cartridge. The cartridge is standard small caliber and is identified by a stannic-stained (silvered) cartridge case.

Tabulated Data:

DODAC	1305-A578
UNO serial number	0339
UNO proper shipping	
name	
	weapons, inert pro-
	jectile
Weight	1902 gr
Length	4.53 in. (115.1 mm)
Tracer	NA
Primer	Percussion

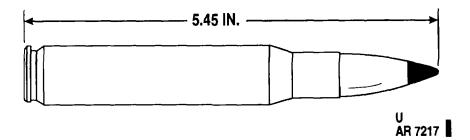
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 4831
Weight	142 gr

Performance:

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, CALIBER .50: ARMOR PIERCING INCENDIARY (API), MK 211 MOD 0



Type Classification:

Std - Feb 96 (for U.S. Army).

Use:

M2 Machine Gun.

Description:

Armor Piercing Cartridge. This cartridge is identified by green bullet tip identification paint. The projectile consists of a brass jacket surrounding a steel body and tungsten core with incendiary and high explosive charges.

Purpose:

This cartridge provides improved penetration performance against enemy personnel and light armor vehicles.

Tabulated Data:

DODAC (Navy)	1305-01-250-8162,
, , ,	A606;
	1305-01-249-6888,
	A607;
	1305-01-251-2581,
	A608
Weight	1765 gr
Length	5.45 in.
Tracer	N/A
Primer	Percussion
Fuze	N/A

Comp A-4
13 gr
#136
13.1 gr
•
WC 860/MR 5010
or RA-NC-167
233 gr
671 gr

Performance:

Chamber pressure	55,000 cup
Velocity	2910 fps +30 at
•	78 ft from muzzle

Shipping and Storage Data:

DODAC	1305-A607 with
	M20 API Tracer
Quantity-distance class	ss/SCG1.4G
Storage code	
DOT shipping class	
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	12576457

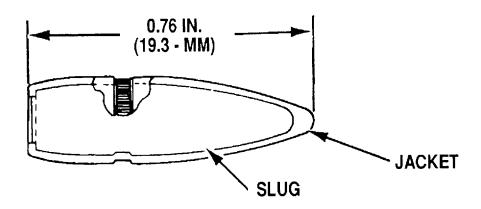
References:

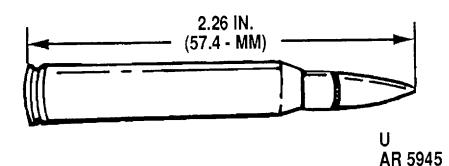
TM 9-1005-213-10
TM 9-1305-201-20&P
TM 9-1305-201-34&P

Change 2 9-48

CHAPTER 10 5.56MM CARTRIDGES

CARTRIDGE, 5.56MM, BALL, M193





Type Classification:

STD - AMCTC 5143.

Use:

Rifles, 5.56mm, M16 and M16A1. The cartridge is intended for use against personnel and unarmored targets.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet tip.

Tabulated Data:

DODACUNO serial number	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	182 gr
Length	2.26 in. (57.4 mm)
Tracer	NA

Primer	
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 844 or
• •	CMR 170
Weight	28.5 or 26.5 gr
Projectile:	
Weight	56 gr
	•

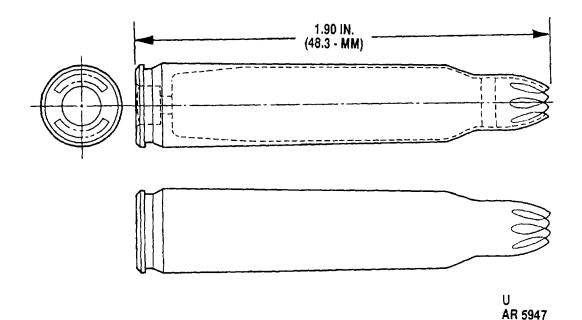
Performance:

Chamber pressure	52,000 psi
Velocity	3250 fps, 15 ft from
•	muzzle
Shinning and Storage	Data

Shipping and Storage Data: Quantity-distance class/

Quality-distance class/	
SCG	1.4S
Storage code	Class \

CARTRIDGE, 5.56MM, GRENADE, M195



Type Classification:

STD - AMCTC 6919.

Use:

Rifles, 5.56mm, M16 and M16A1.

Description:

<u>GRENADE</u> Cartridge. The cartridge is identified by a rose-petal (rosette-crimp) closure of the cartridge case mouth sealed with red lacquer.

Function:

The cartridge provides pressure, on functioning, to project grenades to a desired target using a grenade projection adapter.

Tabulated Data:

DODAC	1330-G841
UNO serial number	0014
UNO proper shipping	
name	Cartridges for
	weapons, blank

Weight Length Tracer Primer	1.9 in. (48.3 mm) NA
Fuze	NA
Explosive: Type Weight Incendiary: Type Weight Propellant:	NA NA NA
Type Weight	
vvcigiit	25 gi

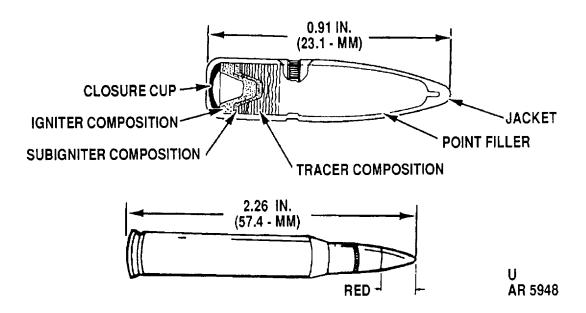
Performance:

Chamber pressure	NA
Velocity	140 to 165 fps, 5 ft
	6 in. from muzzle
	for projected gre-
	nade

Shipping and Storage Data:

Quantity-distar	ice class/
SCG	1.4S
Storage code `	Class V

CARTRIDGE, 5.56MM, TRACER, M196



Type Classification:

STD - AMCTC 5055.

Use:

Rifles, 5.56mm, M16 and M16A1. The tracer is intended to permit visible observation of the bullet's inflight path or trajectory to the point of impact.

Description:

TRACER Cartridge. The cartridge is identified by a red bullet tip.

Tabulated Data:

DODAC UNO serial number UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	177 gr
Length	2.26 in. (57.4 mm)
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	

Incendiary:

Type	NA
Weight	
Propellant:	
Type	WC 844 or
• •	IMR 8208M
Weight	28.5 gr, 25.3 gr or
J	CMR 170, 26.5 gr
Projectile:	
Weight	54 gr

Performance:

Chamber pressure	52,000 psi
Velocity	3200 fps, 15 ft from
-	muzzle

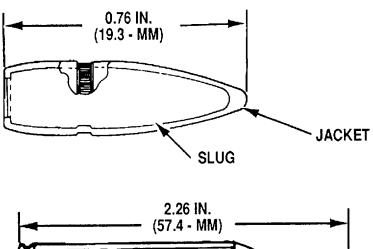
Shipping and Storage Data:

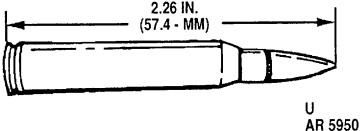
Quantity-distance class/	1
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	
AMMUNITION	
Drawing number	10534193

References:

SB 700-20 TM 9-1005-249-10 TM 9-1300-206

CARTRIDGE, 5.56MM, HIGH PRESSURE TEST, M197





Type Classification:

STD - AMCTC 4484.

Use:

Rifles, 5.56mm, M16 and M16A1. The cartridge is used to proof test weapons during manufacture, test, or repair.

Description:

<u>HIGH PRESSURE TEST</u> Cartridge. The cartridge is identified by a stannic-stained (silvered) or nickel-plated cartridge case.

Function:

The cartridge is loaded with a special propellant to produce pressures substantially in excess of the service round.

Tabulated Data:

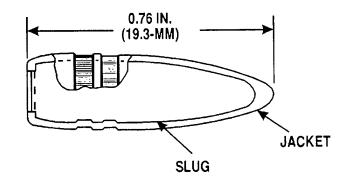
DODAC	1305-A070
UNO serial number	0012

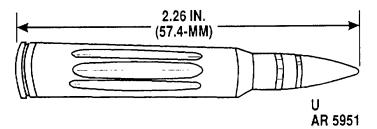
UNO proper shipping name	Cartridges for weapons, inert pro-
	jectile
Weight	174 ar
	2.26 in. (57.4 mm)
Tracer	
Primer	
Fuze	
Explosive:	
Type	NIΔ
Weight	
Incendiary:	
-	NΙΔ
Type	
Weight	NA
Propellant:	OD 7044
Type	
Weight	16.7 gr
Projectile:	
Weight	56 gr
Performance:	
Chamber pressure	
Velocity	NA
Shipping and Storage	e Data:

Quantity-distance class/

SCG1.4S Storage code.....Class V

CARTRIDGE, DUMMY, 5.56MM, M199





Type Classification:

STD - AMCTC 4662.

Use:

Rifles, 5.56mm, M16 and M16A1. The cartridge is used for practice in loading 5.56mm weapons, for simulated firing to detect flinching of personnel when firing, and for inspecting and testing the weapon mechanisms.

Description:

<u>DUMMY</u> Cartridge. The cartridge is identified by six longitudinal corrugations (flutings) in the cartridge case and there is no primer.

Tabulated Data:

DODACWeight	.150 gr .2.26 in. (57.4 mm) .NA .NA
Explosive:	
Type	.NA
Weight	.NA

NA
NA
NA
NA

Performance:

Chamber	pressure	NA
Velocity		NΑ

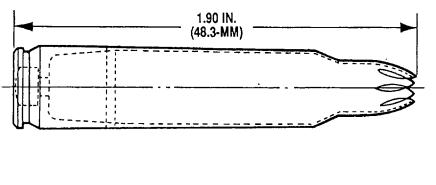
Shipping and Storage Data:

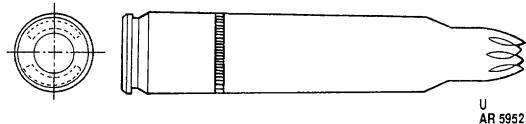
Quantity-distance class/	
SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	
AMMUNITION	
Drawing number	10534021

References:

SB 700-20 TM 9-1005-249-10 TM 9-1300-206

CARTRIDGE, 5.56MM, BLANK, M200





Type Classification:

STD - AMCTC 5942.

Use:

Rifles, 5.56mm, M16 and M16A1. The cartridge is designed for simulated firing in training exercises and for saluting purposes.

Description:

<u>BLANK</u> Cartridge. The cartridge is identified by a rose-petal (rosette-crimp) closure of the cartridge case mouth. An engraved knurl is located 1/2 inch from the head of the cartridge case.

Tabulated Data:

DODAC	1305-A080
UNO serial number	0014
UNO proper shipping	
name	Cartridges for
	weapons, blank
Weight	107 gr
Length	1.9 in. (48.3 mm)
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:	
Type	NA
Weight	
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	HPC 13
Weight	7 gr

Performance:

Chamber pressure	NA
Velocity	NA

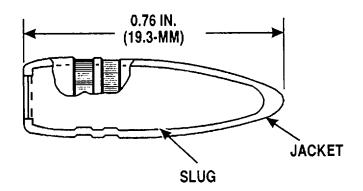
Shipping and Storage Data:

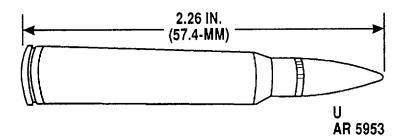
s/
1.4S
Class V
C
SMALL ARMS
AMMUNITION
10542379

References:

SB 700-20 TM 9-1005-249-10 TM 9-1300-206

CARTRIDGE, DUMMY, 5.56MM, M232





Type Classification:

STD - AMCTC 4485.

Use:

Rifles, 5.56mm, M16 and M16A1. The cartridge is an inert round used for testing the mechanisms of 5.56 weapons.

Description:

<u>DUMMY</u> Cartridge. The cartridge is identified by a black chemical finish over the entire round and by the absence of a primer.

Tabulated Data:

DODAC	161 gr 2.26 in. (57.4 mm) NA NA
Explosive:	NA
Type	NA
Weight	NA

ncendiary	-

Type	NA
Weight	
Propellant:	
Type	NA
Weight	NA

Performance:

Chamber pressure	NA
Velocity	NA

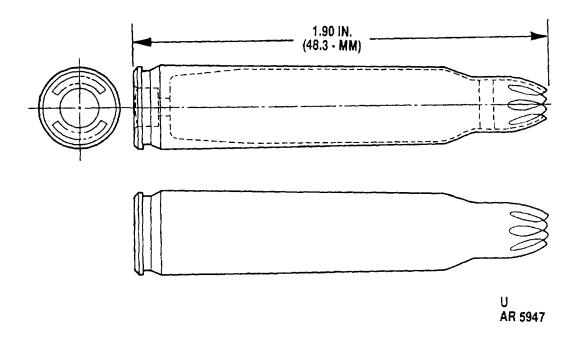
Shipping and Storage Data:

Quantity-distance class	
SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	NONEXPLOSIVE
_	AMMUNITION
Drawing number	10534146

References:

SB 700-20 TM 9-1005-249-10 TM 9-1300-206

CARTRIDGE, 5.56MMN, BLANK, M755



Type Classification

STD - MSR 04786005.

Use:

The M755 blank cartridge is especially designed for use with the Sting Ring Airfoil Munition System which consists of the M234 launcher and the 64mm riot control M743 projectile fired from the M1GA1 rifle.

Description:

<u>BLANK</u> Cartridge. The cartridge is only for use-with-the M234 riot control 64lmm projectile launcher. The launcher is attached to the flash suppressor of the M16A1 rifle and actuated by firing an M755 5.56Gmim blank cartridge. The M755 blank cartridge is the only cartridge that will give the projectile M743 the proper velocity. Use of other blank cartridges may damage the system.

The cartridge is loaded with 12 grains of Dupont Hi Skor 700X propellant closed with a seven petal nose crimp and moisture sealed. The crimped tips of the cartridge is painted with yellow lacquer for identification and thus lessen the chance of mixing them with the standard M16Al rifle blank cartridges.

Function:

The blank cartridge is fed into the firing chamber. When fired, the primer ignites the propellant. The expanding propellant ,gases pass fiom the muzzle of the rifle into the launcher manifold. The projectile is ejected from the launcher barrel. The propellant charge is not sufficient to eject the cartridge case which must be ejected by pulling the charging handle of the rifle all the way back.

Tabulated Data

Α
2 gr
in. (48.3 mm)
rcussion
1
1
1
1
1
Skor 700X
gr
֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜

Performance:

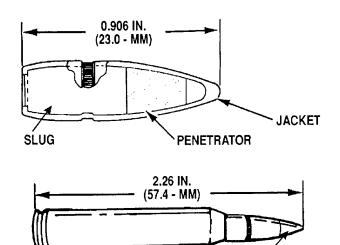
Chamber pressure	NA
Velocity	172 to 198 fps
Maximum range	100 m

Shipping and Storage Data:

Quantity-distance class	/
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	SMALL ARMS
_	AMMUNITION
Drawing number	C122-3-43

10-18

CARTRIDGE, 5.56MM, BALL, M855



U AR 5946

GREEN

Type Classification:

STD - MSR 05826003.

Use:

Machine Gun, 5.56mm, M249E1; and Rifle, 5.56mm, M16A2. The cartridge is intended for use against personnel and unarmored targets.

Description:

BALL Cartridge. The cartridge is identified by a green bullet tip.

Tabulated Data:

DODACUNO serial number	
UNO proper shipping	0
name	
	weapons, inert pro-
	jectile
Weight	
Length	2.26 in. (57.4 mm)
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA

44
gr

Performance:

Chambe	r pressure55,000 psi
Velocity	3025 fps, 78 ft from
	muzzle

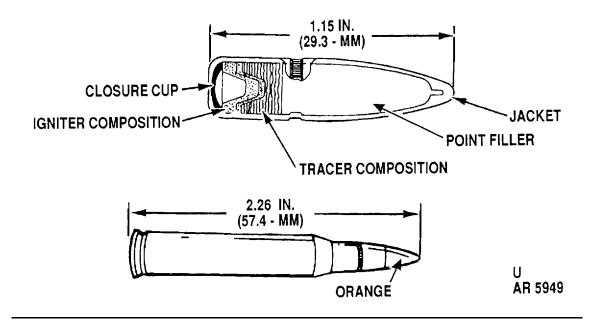
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	
DOT designation	SMALL ARMS
AMMUNITION	
Drawing number	9342862

References:

DARCOM 700-3-2 TM 9-1300-206 TM 9-1305-201-20&P

CARTRIDGE, 5.56MM, TRACER, M856



Type Classification:

STD - MSR 05826002.

<u>Use:</u>

Machine Gun, 5.56mm, M249E1; and Rifle, 5.56mm, M16A2. The tracer is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact.

Description:

TRACER Cartridge. The cartridge is identified by an orange bullet tip.

Tabulated Data:

DODAC UNO serial number UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	191 gr
	2.26 in. (57.4 mm)
Tracer	NA
Primer	Percussion
Fuze	NA

Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 844
Weight	24.7 gr
Projectile:	J
Weight	63.7 gr

Performance:

Chamber pressure	55,000 psi
Velocity	2870 fps, 78 ft from
	muzzle

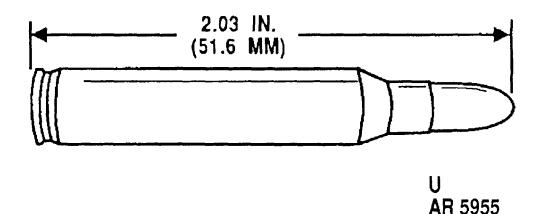
Shipping and Storage Data:

S
ς

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, 5.56MM, PLASTIC, PRACTICE, M862



Type Classification:

STD - To be approved.

Use:

Rifles, 5.56mm, M16A1 and M16A2 with M2 Practice Bolt. The cartridge is for training in local and urban training areas where range restrictions preclude use of full range standard service ammunition.

Description:

<u>PLASTIC</u> Cartridge. The cartridge is identified by a blue plastic bullet.

Tabulated Data:

DODAC	1305-A065
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	108 gr
Length	2.03 in. (51.6 mm)
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WPR 260
Weight	8.7 gr
Projectile:	
Weight	3.6 gr

Performance:

Chamber pressure	15,750 psi
Velocity	4525 fps, 15 ft from
muzzle	

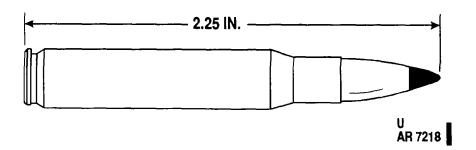
Shipping and Storage Data:

Quantity-distance class	/
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
_	AMMUNITION
Drawing number	12598589

References:

SB 700-20 TM 9-1005-249-10 TM 9-1300-206

CARTRIDGE, 5.56MM, ARMOR PIERCING (AP), M995



Type Classification:

Std - 29 Mar 96.

Use:

Rifle, 5.56MM, M16A2 Rifle, 5.56MM, M249 Squad Automatic Weapon.

Description:

Armor Piercing Cartridge. This cartridge is identified by black bullet tip identification paint.

Purpose:

This cartridge provides improved penetration performance against various targets as compared to standard ball ammunition.

Tabulated Data:

DODAC	1305-AA01,
1305-AA02	
Weight	180 gr
Length	2.25 in.
Tracer	N/A
Primer	4.5mm Berdan
Fuze	N/A
Explosive:	
Туре	N/A
Weight	

Incendiary:	
Type	N/A
Weight	
Propellant:	
Type	WCR845
Weight	27.5 gr
Projectile:	· ·
Weight	52 gr

Performance:

Chamber pressure	50,250 psi
Velocity	3324 fps at 78 ft
•	from muzzle

Shipping and Storage Data:

Linked AP cartridgeAA01	1305-01-393-7050,
Linked AP cartridge with tracer	1305-01-393-7052, AA02
Quantity-distance class/SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	
AMMUNITION	
Drawing number	12956131

References:

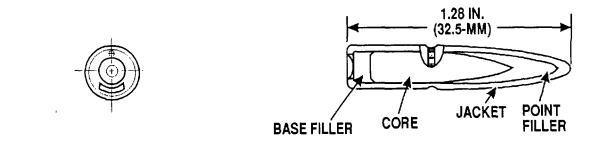
TM 9-1005-201-10 TM 9-1005-319-10 TM 9-1305-201-20&P TM 9-1305-201-34&P

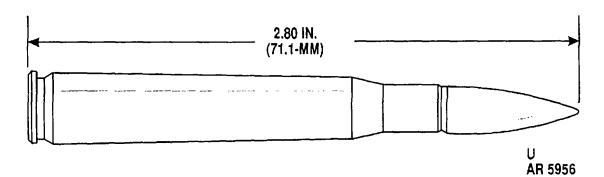
Change 2 10-26

CHAPTER 11

7.62MM CARTRIDGES

CARTRIDGE, 7.62MM, BALL, M59





Type Classification:

STD - OTCM 36841.

Use:

Machine Guns, 7.62mm, M60 and M219; and Rifle, 7.62mm, M14. The cartridge is intended for use against personnel and unarmored targets.

Description:

 $\underline{\mathsf{BALL}}$ Cartridge. The cartridge is identified by a plain bullet tip.

Tabulated Data:

1305-A143 0012
Cartridges for
weapons, inert pro-
jectile
393 gr
2.8 in. (71.1 mm)
NA
NA

Fuze	. NA
Explosive:	
Type	. NA
Weight	. NA
Incendiary:	
Type	. NA
Weight	. NA
Propellant:	
Type	. WC 846
Weight	
Projectile:	
Weight	. 150.5 gr

Performance:

Chamber pressure 50,000 psi
/elocity 2750 fps, 78 ft from
muzzle

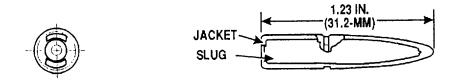
Shipping and Storage Data:

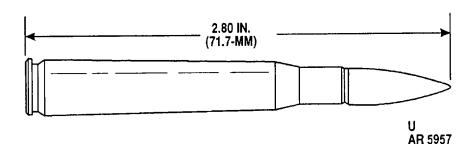
Quantity-distance class	ss/
SCG	1.4S
Storage code	Class V
DOT shipping class .	C
DOT designation	SMALL ARMS
•	AMMUNITION
Drawing number	7553702

References:

SB 700-20 TM 9-1005-223-10 TM 9-1005-223-12P TM 9-1005-224-10 TM 9-1005-233-10 TM 9-1005-298-12 TM 9-1005-313-10 TM 9-1300-206

CARTRIDGE, 7.62MM, HIGH PRESSURE TEST, M60





Type Classification:

OBS - MSR 11756003.

Use:

All 7.62mm weapons. The cartridge is not for field issue, but is used for proof firing of weapons during manufacture, test, or repair.

Description:

<u>HIGH PRESSURE TEST</u> Cartridge. The cartridge is identified by a stannic-stained (silvered) case.

Function:

The cartridge is loaded with a special propellant to produce pressures substantially in excess of the service cartridge.

Tabulated Data:

DODAC	. 1305-A129
UNO serial number	. 0012
UNO proper shipping	
name	
	weapons, inert pro-
	jectile
Weight	. 412 gr
Length	. 2.8 in. (71.1 mm)
Tracer	. NA
Primer	. Percussion
Fuze	. NA

Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 4475
Weight	41 gr
Projectile:	_
Weight	171.5 gr

Performance:

Chamber pressure	67,500 psi
Velocity	NA

Shipping and Storage Data:

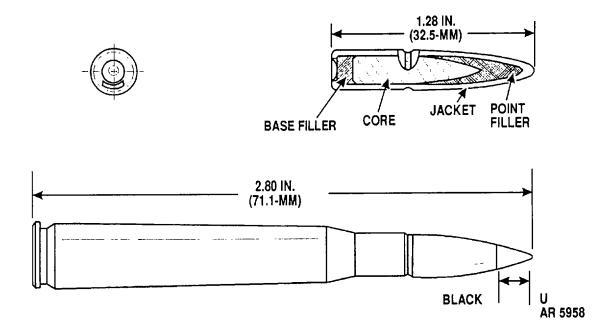
Quantity-distance class/
SCG 1.4S
Storage code Class V
DOT shipping class C
DOT designation SMALL ARMS
AMMUNITION
Drawing number 7553703

References:

SB 700-20

TM 9-1005-223-10
TM 9-1005-223-12
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206

CARTRIDGE, 7.62MM, ARMOR PIERCING, M61



Type Classification:

OBS - MSR 11756003.

Use:

Machine Guns, 7.62mm, M60, M219 and M240; and Rifle, 7.62mm, M14. The cartridge is used in rifles and machine guns against personnel and light armored or unarmored targets, concrete shelters, and similar bullet-resisting targets.

Description:

<u>ARMOR PIERCING</u> Cartridge. The cartridge is identified by a black bullet tip.

Tabulated Data:

DODAC	
UNO proper shipping nameCa	rtridges for
	apons, inert pro
jec	•
Weight 393	3 gr
Length 2.8	in. (71.1 mm)
Tracer NA	
Primer Pe	rcussion

Fuze	. NA
Explosive:	
Type	. NA
Weight	. NA
Incendiary:	
Type	
Weight	. NA
Propellant:	
Type	IMR 4475
Weight	. 41 gr
Projectile:	
Weight	. 150.5 gr

Performance:

Chamber pressure	50,000 psi
Velocity	2750 fps, 78 ft from
	muzzle

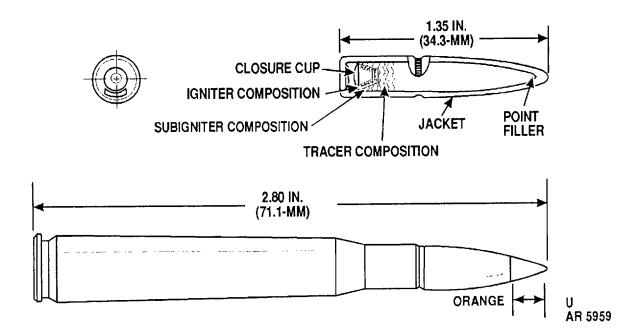
Shipping and Storage Data:

Quantity-distance cla	
SCG	1.45
Storage code	Class V
DOT shipping class.	C
DOT designation	SMALL ARMS
•	AMMUNITION
Drawing number	7553704

References:

SB 700-20 TM 9-1005-223-10 TM 9-1005-223-12P TM 9-1005-224-10 TM 9-1005-233-10 TM 9-1005-298-12 TM 9-1005-313-10 TM 9-1300-206

CARTRIDGE, 7.62MM, TRACER, M62



Type Classification:

CON - MSR 11756003.

Use:

Machine Guns, 7.62mm, M60, M219 and M240; and Rifle, 7.62mm, M14. The tracer is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact.

Description:

TRACER Cartridge. The cartridge is identified by an orange bullet tip.

Tabulated Data:

DODAC	1305-A124
UNO serial number	0012
UNO proper shipping	
name	
	weapons, inert pro-
	jectile
Weight	383 gr
Length	2.8 in. (71.1 mm)
Tracer	R284

Primer	
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 846
Weight	46 gr
Projectile:	_
Weight	142 gr

Performance:

Chamber pi	ressure 50,000 psi
Velocity	2750 fps, 78 ft from
	muzzle

Shipping and Storage Data:

Quantity-distance class/

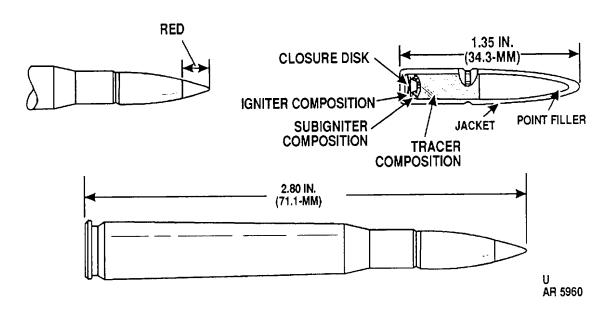
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
· ·	AMMUNITION
Drawing number	10522000

References:

SB 700-20 TM 9-1005-223-10 TM 9-1005-223-12P TM 9-1005-224-10 TM 9-1005-233-10 TM 9-1005-298-12 TM 9-1005-313-10 TM 9-1300-206

11-10

CARTRIDGE, 7.62MM, TRACER, M62 (OVERHEAD FIRE MISSION)



Type Classification:

CON - MSR 11756003.

Use:

Machine Guns, 7.62mm, M60, M219 and M240; and Rifle, 7.62mm, M14. The cartridge is used in weapons for firing over the heads of troops being trained in field exercises. Stringent production control and screening of ammunition lots ensure the safety of personnel operating immediately below the trajectory of the fired bullets.

Description:

TRACER Cartridge. The cartridge is identified by a red bullet tip.

Tabulated Data:

DODACUNO serial number	
name	•
	weapons, inert pro-
Weight	jectile
Length	
Tracer	
Primer	
Fuze	NA
Explosive:	
Type	NA
Weight	NA

16

Performance:

Chamber pressure	. 50,000 psi
Velocity	. 2750 fps, 78 ft from
	muzzle

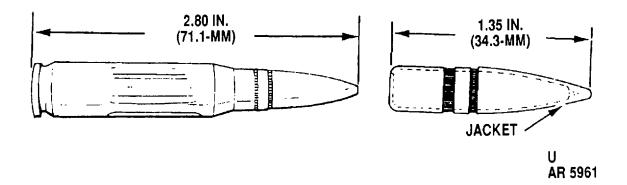
NΙΛ

Shipping and Storage Data:

Quantity-distance class	s/
SCG	. 1.4S
Storage code	. Class V
DOT shipping class	. C
DOT designation	
-	AMMUNITION
Drawing number	. 10535493

References:

CARTRIDGE, DUMMY, 7.62MM, M63



Type Classification:

STD - OTCM 36841.

Use:

Machine Guns, 7.62mm, M60, M219 and M240; and Rifle, 7.62mm, M14. The cartridge is used for practice in loading 7.62mm weapons for simulated firing to detect flinching of personnel during firing and for inspecting and testing the weapon mechanism.

Description:

<u>DUMMY</u> Cartridge. The cartridge is identified by six longitudinal corrugations (flutings) on the cartridge case. There is no primer and no vent hole in the primer pocket.

Tabulated Data:

DODAC	1305-A135
Weight	258 gr
Length	2.8 in. (71.1 mm)
Tracer	NA `
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

NA
NA
NA
NA
NA

Performance:

Chamber pressure	NA
Velocity	NA

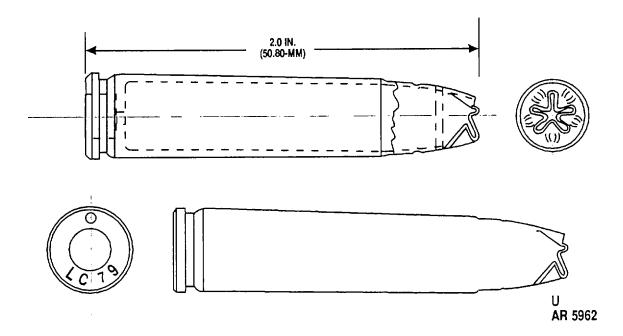
Shipping and Storage Data:

Quantity-distance class/	
SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	
-	AMMUNITION
Drawing number	7553706

References:

SB 700-20
TM 9-1005-223-10
TM 9-1005-223-12P
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206

CARTRIDGE, 7.62MM, GRENADE, M64



Type Classification:

OBS - MSR 11756003.

Use:

Rifle, 7.62mm, M14.

Description:

GRENADE Cartridge. The cartridge is identified by a rose-petal (rosette-crimp) closure of the cartridge case mouth and sealed with red lacquer.

Function:

The cartridge provides pressure upon functioning to project rifle grenade to a desired target when using a grenade projectile adapter and dragon missile launch effect trainer (LET).

Tabulated Data:

DODAC	1330-G839
UNO serial number	0014

UNO proper shipping name	Cartridges for weapons, blank
Weight	•
Length	
Tracer	
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	
Weight	45 gr
Projectile:	
Weight	NA
Performance:	

NA
160 fps, 5.(, ft from
nuzzle for pro-
jected grenade

Shipping and Storage Data:

Quantity-distance	class/
SCG	1.4S
Storage code	Class V

DOT shipping class C DOT designation SMALL ARMS

AMMUNITION

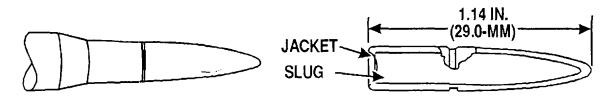
Drawing number 7553707

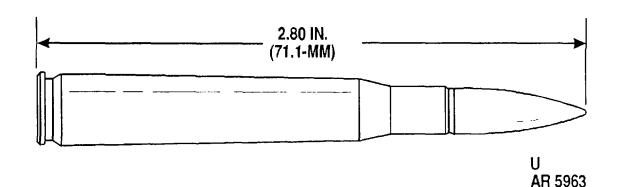
References:

SB 700-20 TM 9-1300-206

11-16

CARTRIDGE, 7.62MM, BAL., M80





Type Classification:

STD - MSR 07798001.

Use:

Machine Guns, 7.62mm, M60, M219 and M240; and Rifle, 7.62mm, M14. The cartridge is intended for use against personnel and unarmored targets.

Description:

 $\underline{\mathsf{BALL}}$ Cartridge. This cartridge is identified by a plain bullet tip.

Tabulated Data:

1305-A122 0012
Cartridges for
weapons, inert pro
jectile
392 gr
2.8 in. (71.1 mm)
NA
Percussion
NA

Explosive:	
Туре	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 846
Weight	46 gr

Projectile: Weight146 gr

Performance:

Chamber pressure	50,000)() psi
Velocity	27501) fps, 78 ft from
	muzzle

Shipping and Storage Data:

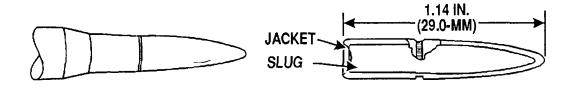
Quantity-distance cla	
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	10521998

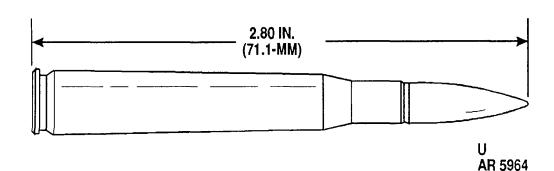
References:

SB 700-20 TM 9-1005-223-10 TM 9-1005-223-12P TM 9-1005-224-10 TM 9-1005-233-10 TM 9-1005-298-12 TM 9-1005-313-10 TM 9-1300-206

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CARTRIDGE, 7.62MM, BALL, M80 (OVERHEAD FIRE APPLICATION)





Type Classification:

STD - MSR 07798001.

Use:

Machine Guns, 7.62mm, M60, M219 and M240. The cartridge is used in machine guns for firing over the heads of troops being trained in field exercises. Stringent production control and screening of ammunition lots ensure the safety of personnel operating immediately below the trajectory of the fired bullets.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by a plain bullet tip.

Tabulated Data:

DODACUNO serial number	
name	Cartridges for weapons, inert projectile
Weight	
Length	

Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Туре	
Weight	NA
Propellant:	
Type	WC 846
Weight	46 gr
Projectile:	
Weight	149 gr

Performance:

Chamber pressure	50,000 psi
Velocity	2750 fps, 78 ft from
	muzzle

Shipping and Storage Data:

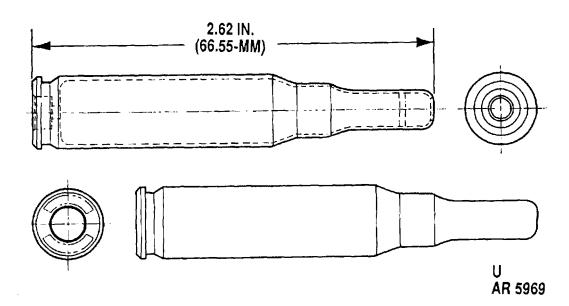
Quantity-distance clas	s/
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	
•	AMMUNITION
Drawing number	10523088

References:

SB 700-20 TM 9-1005-223-10 TM 9-1005-223-12P TM 9-1005-224-10 TM 9-1005-233-10 TM 9-1005-298-12 TM 9-1005-313-10 TM 9-1300-206

11-20

CARTRIDGE, 7.62MM, BLANK, M82



Type Classification:

STD - OTCM 36841.

Use:

Machine Guns, 7.62mm, M60, M219 and M240; and Rifle, 7.62mm, M14. The cartridge is used in rifles and machine guns equipped with blank firing attachments to simulate firing in training exercises and for saluting purposes.

Description:

<u>BLANK</u> Cartridge. The cartridge is identified by its double tapered neck and absence of a bullet.

Tabulated Data:

DODAC	1305-A112
UNO serial number	0014
UNO proper shipping	
name	
	weapons, blank
Weight	235 gr
Length	2.62 in. (66.55 mm)
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA

Weight	NA
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	SR 8231
Weight	15 gr

Performance:

Chamber pressure	NΑ
Velocity	NA

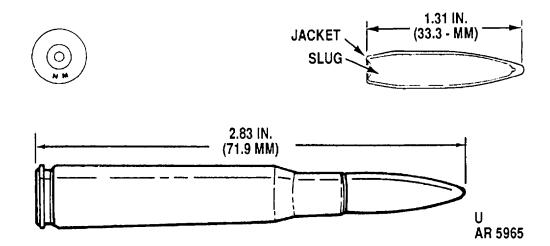
Shipping and Storage Data:

Quantity-distance cla	ass/
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
_	AMMUNITION
Drawing number	8597283

References:

SB 700-20
TM 9-1005-223-10
TM 9-1005-223-12P
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206

CARTRIDGE, 7.62MM, BALL, SPECIAL, M118



Type Classification:

STD - MSR 07798001.

Use:

Rifles, 7.62mm, M14, M21, M24, and M40A1. The cartridge is intended and specifically prepared for use in high accuracy weapons.

Description:

<u>BALL</u> Cartridge. The cartridge is identified by cartridge case head stampings with NATO design mark, manufacturer and year.

Tabulated Data:

DODAC	1305-A136
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	390 gr
Length	2.83 in. (71.9 mm)
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA

Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 846 and
	IMR 4895
Weight	44 gr
Projectile:	•
Weight	172 gr

Performance:

Chambe	er pressure	50,000 psi
Velocity		2640 fps

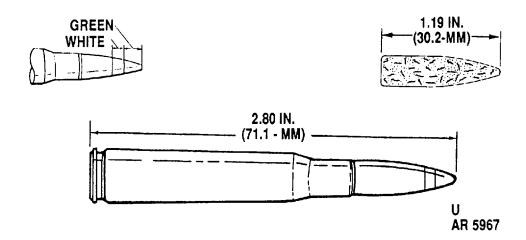
Shipping and Storage Data:

Quantity-distance class/	/
SCG	1.4S
Storage code	Class V
DOT shipping class	
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	8597555

References:

SB 700-20 TM 9-1005-223-12P TM 9-1300-206

CARTRIDGE, 7.62MM, FRANGIBLE, M160



Type Classification:

STD - AMCTC 2186.

Use:

Machine Guns, 7.62mm, M219 and M240. The cartridge is designed for firing single shots in the machine gun for gunnery practice.

Description:

<u>FRANGIBLE</u> Cartridge. The cartridge is identified by a green bullet tip with a white ring to the rear of the green tip.

Function:

The frangible bullet, upon striking a target, disintegrates, leaving a mark at the point of impact. It is not to be fired on indoor ranges unless they are well ventilated to prevent the buildup of bullet "dust," which is toxic.

Tabulated Data:

DODAC	1305-A147
UNO serial number .	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert pro
	jectile
Weight	315 gr
Length	2.8 in. (71.1 mm)
Tracer	NA
Primer	Percussion

Fuze	NA
Explosive:	
Туре	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	SR 8074
Weight	10.5 gr
Projectile:	
Weight	108.5 gr

Performance:

Chamber pressure	NA
Velocity	1320 fps, 100 yd
	from muzzle

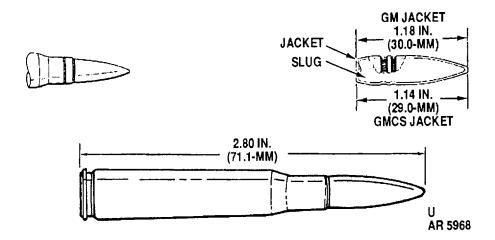
Shipping and Storage Data:

Quantity-distance cla	SS/
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	
-	AMMUNITION
Drawing number	10522476

References:

SB 700-20
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206

CARTRIDGE, DUMMY, 7.62MM, M172



Type Classification:

STD - AMCTC 4635.

Use:

Test of 7.62mm weapons. The cartridge is inert and is used to test the mechanism and metallic link belts of 7.62mm weapons.

Description:

<u>DUMMY</u> Cartridge. The cartridge is identified by a black oxide finish over the entire round and has no primer. There is no vent hole in the primer pocket.

Tabulated Data:

DODAC	. 1305-A162
Weight	. 385 gr
Length	. 2.8 in. (71.1 mm)
Tracer	. NA
Primer	. NA
Fuze	. NA
Explosive:	
Type	. NA
Weight	. NA
Incendiary:	
Type	. NA
Weight	. NA

Dro	nall	lont:
Γ 10	peii	lant:

Type	NΑ
Weight	NA
Projectile:	
Weight	NA

Performance:

Chamber pressure	NΑ
Velocity	NΑ

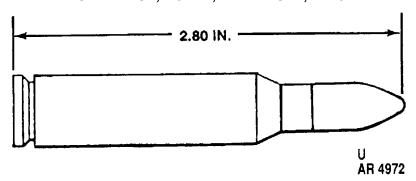
Shipping and Storage Data:

Quantity-distance class/	
SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	
-	AMMUNITION
Drawing number	10522688

References:

)

CARTRIDGE, 7.62MM, DIM TRACER, M276



Type Classification:

STD - Being performed.

<u>Use:</u>

Rifle, 7.62mm, M14; Machine Guns, 7.6mm, M60, M240, M219 and M134. The combat cartridge is to be used by soldiers equipped with night vision equipment.

Description:

<u>COMBAT</u> Cartridge. The cartridge is identified by a pink ring behind a green tip.

Tabulated Data:

DODAC	. 1305-A163
UNO serial number	. 0012
UNO proper shipping	
name	. Cartridges for
	weapons, inert pro-
	jectile
Weight	. 381 gr
Length	. 2.8 in.
Tracer	R440 Trace Mix
Primer	
Fuze	. NA
Explosive:	
Type	. NA
Weight	. NA
Incendiary:	

Type	NA
Weight	
Propellant:	
Type	WC-846
Weight	46 gr
Projectile weight	

Performance:

Chamber pressure	50,000 psi
Velocity	2750 fps (GMCS)
· · · · · · · · · · · · · · · · · · ·	and 2680 fps (GM),
	78 ft from muzzle

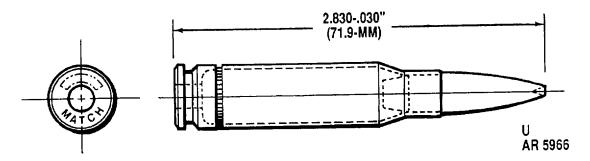
Shipping and Storage Data:

Quantity-distance cla	ass/
SCG	1.4S
Storage code	C
DOT shipping class.	C
DOT designation	CARTRIDGES
-	SMALL ARMS

References:

DMWR 9-1300-0017-D1 TM 9-1305-201-20&P TM 9-1305-201-34&P

CARTRIDGE, 7.62 MM, MATCH, M852



Type Classification:

STD - MSR 09816009.

Use:

Rifle, 7.62 mm, M14, NATIONAL MATCH. The cartridge is intended and specifically prepared for use in those weapons designated as competitive rifles and also for marksmanship training. The cartridge is not for combat use.

Description:

MATCH Cartridge. The cartridge is identified by the cartridge case head stamping of MATCH. It also has a knurl at the base of the cartridge case and a hollow point bullet.

Tabulated Data:

DODAC	1305-A171
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
weapons, inert projectile	
Weight	385 gr
Length	2.83 in. (71.9 mm)

Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 4895
Weight	
Bullet:	· ·
Type	Hollow point
Weight	
-	-

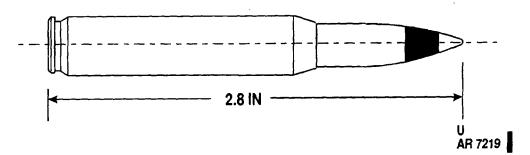
Performance:

Chamber pressure	50,000 psi
Velocity	2550 fps, 772 nips

Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
AMMUNITION	
Drawing number	9341551

CARTRIDGE, 7.62 MM, ARMOR PIERCING (AP), M993



Type Classification:

Std - 16 Feb 96.

Use:

Rifle, 7.62 MM, M24 Sniper Weapon System Machine Guns, 7.62 mm: M60 and M240.

Description:

7.62 mm Armor Piercing Cartridge. The cartridge is identified by a black stripe circling the tip of the projectile. This item will be linked with M62 Tracer.

Purpose:

The 7.62 mm cartridge provides an enhanced armor penetrating capability for use in standard 7.62 mm weapons.

Tabulated Data:

DODAC	1305-01-398-1450,
	AA03;
	1305-01-398-1449,
	AA04
Weight	362.6 gr
Length	
Tracer	N/A
Primer	Percussion
Fuze	N/A
Explosive:	
Туре	N/A
Weight	N/A

Incendiary:	
Type	N/A
Weight	
Propellant:	
Type	Bofors NC1290
Weight	
Projectile:	C
Weight	126.6 gr

Performance:

Average chamber pressure	
at 70°F	55,115 psi
Average velocity at 70°F	2985 fps at 78 ft
	from muzzle

Shipping and Storage Data:

M993 AP, carton packed	
	DODAC AA03
M993 AP and M62 tracer,	
linked in 24:1 ratio	1305-01-398-1449,
	DODAC AA04
Quantity-distance class/SCG	1.4C
Storage code	Class C
DOT shipping class	
DOT designation	
U	AMMUNITION
Drawing number	12956134
•	

References:

TM 9-1005-224-10 TM 9-1005-306-10 TM 9-1005-313-10 TM 9-1305-201-20&P TM 9-1305-201-34&P

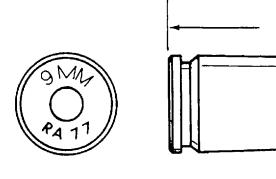
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CHAPTER 12

9 MM CARTRIDGES

CARTRIDGE, 9 MM, BALL



Type Classification:

Commercial.

Use:

Modified M3 Submachine Gun or commercial weapons. (The use in M9 Pistol is not authorized.) The cartridge is intended for use against personnel.

Description:

BALL Cartridge.

Tabulated Data:

DODAC	1305-A360
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	
Length	
· ·	(29.69 mm)
Tracer	
Primer	Percussion
Fuze	
Explosive:	
Туре	NA
Weight	NA
•	

al

Performance:

1.169 IN. (29.69-MM)

NOTE

AR 5970

Mid case pressures normally run 8000 to 10,000 psi higher than case mouth pressure.

Mid case pressure	38,500 psi (avg),
	43,000 psi (max)
Velocity	1125 + 90 fps, 15 ft
-	from muzzle

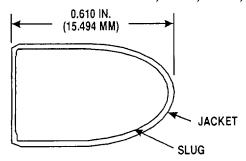
Shipping and Storage Data:

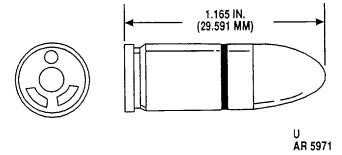
Quantity-distance class/	
SCG	. 1.4S
Storage code	. Class V
DOT shipping class	. C
DOT designation	. SMALL ARMS
G	AMMUNITION
Drawing number	. 10542448

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, 9 MM, BALL, NATO, M882





Type Classification:

HQDA (DAMA-CSM), dated 15 April 85.

Use:

Pistol, 9 mm, M9. The cartridge is intended for use against personnel.

NOTE

M882 ammunition can be used in the following nonstandard weapons:

Pistol HK P7 series (GE) Walther P38 (GE) FN P35 (BE)	Submachine Guns HK MP5 (GE) HK MP5SD (GE) IMI Uzi (IS) Baretta M12 (IT) FFV M45/45B (SW) Madsen M50 (DE) CZ M23 (CZ) Sten MK II (UK)
	Sterling 12À3 (ÚK)

Description:

<u>BALL</u> Cartridge. The cartridge is identified by the plain bullet tip.

Tabulated Data

DODAC	1305-A3(3
UNO serial number	
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	179 gr
Length	
G	(29.591 mm)
Tracer	
Primer	
Fuze	NA
Explosive:	
Туре	NA
Weight	
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	HPC 26
Weight	
Projectile weight	112 gr

Performance:

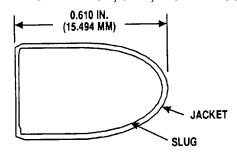
r chomianec.		Otanana aada	01 \/
		Storage code	
Case mouth pressure	31,175 psi (avg),	DOT shipping class	C
·	36,250 psi (max)	DOT designation	SMALL ARMS
Velocity	1263 ± 5 fps, 15 ft		AMMUNITION
•	from muzzle	Drawing number	9345211
		-	

References:

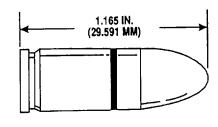
Shipping and Storage Data:

Quantity-distance class/	SB 700-20
SCG1.49	TM 9-1300-206

CARTRIDGE, 9MM, HIGH PRESSURE TEST, M905







U AR 5972

Type Classification:

HQDA (DAMA-CSM), dated 15 April 85.

Use:

Proof testing of M9 pistols. The cartridge is intended for use in proofing new pistols and test barrels to demonstrate safety prior to releasing weapons to the field.

Description:

<u>HIGH PRESSURE TEST</u> Cartridge. The cartridge is identified by a tinned cartridge case and high pressure test head stamp.

Tabulated Data:

DODAC	1305-A364
UNO serial number	0012
UNO proper shipping	
name	
	weapons, inert pro-
	jectile
Weight	179 gr
Length	1.165 in.
	(29.591 mm)
Tracer	NA
Primer	Percussion

Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 370
Weight	

Performance:

Chamber pressure	50,000 ps
Velocity	NA

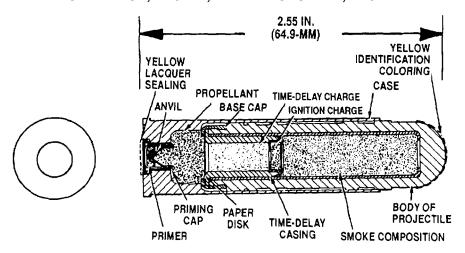
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	
· ·	AMMUNITION
Drawing number	9378265

References:

CHAPTER 13 14.5 MM CARTRIDGES

CARTRIDGE, 14.5 MM, TRAINER-SPOTTER, M181A1



Type Classification:

STD - AMCTC 138.

Use:

Artillery Trainer, M31.

Description:

TRAINER-SPOTTER Cartridge. The cartridge has a chemical-filled (smoke composition) projectile. It is identified by the markings on the cartridge case and a yellow projectile tip. The cartridge has no fuze and it uses a time delay element to provide an air burst.

Function:

When the cartridge is fired, the heat of the propellant gases ignites the delay element. The delay element burns 3 seconds and, in turn, ignites the smoke composition. The heat and pressure produced by the burning filler rupture the plastic closing disc at the projectile base and a visible puff of smoke is emitted.

Tabulated Data:

DODAC	1305-A365
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile

J	
٩R	5973

Weight	1065 gr
Length	2.55 in. (64.9 mm)
Tracer	NA
Primer	Percussion
Fuze	Powder train delay
Explosive:	•
Туре	NA
Weight	NA
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	Hi Skor 700X
Weight	
S .	9

Performance:

Chamber pressure	NA
	100 mps, 4 m from
•	muzzle; 328 fps,
	15 ft from muzzle

Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	9098295

References:

CARTRIDGE, 14.5 MM, TRAINER-SPOTTER, M182A1 2.55 IN. (64.9-MM)YELLOW IDENTIFICATION COLORING YELLOW LACQUER SEALING TIME-DELAY CHARGE CASE **PROPELLANT BASE CAP** IGNITION CHARGE PAPER DISK TIME-DELAY PRIMER **BODY OF** PRIMING **PROJECTILE** CAP **SMOKE COMPOSITION**

Type Classification:

STD - AMCTC 138.

Use:

Artillery Trainer, M31.

Description:

TRAINER-SPOTTER Cartridge. The cartridge has a chemical-filled (smoke composition) projectile. It is identified by the markings on the cartridge case and a yellow projectile tip. The cartridge has no fuze and it uses a time delay element to provide an air burst.

Function:

When the cartridge is fired, the heat of the propellant gases ignites the delay element. The delay element burns 6 seconds and, in turn, ignites the smoke composition. The heat and pressure produced by the burning filler rupture the plastic closing disc at the projectile base and a visible puff of smoke is emitted.

Tabulated Data:

DODAC	1305-A366
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	iectile

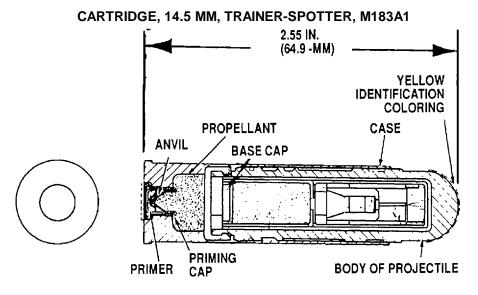
Weight Length Tracer	2.55 in. (64.9 mm)
Primer	
Fuze	
Explosive:	•
Type	NA
Weight	NA
Incendiary:	
Type	
Weight	NA
Propellant:	
Type	
Weight	3.5 gr
Performance:	
Chamber pressure	NΛ
Velocity	
	muzzle; 328 fps,
	15 ft from muzzle

AR 5974

Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	9098297

References:



U AR 5975

Length2.55 in. (64.9 mm)

Type Classification:

STD - AMCTC 138.

Use:

Artillery Trainer, M31.

Description:

TRAINER-SPOTTER Cartridge. The cartridge consists of a cartridge case, a chemical filled (smoke composition) projectile, and a fuze with a small explosive charge to provide a visible and audible verification at point of impact. The cartridge is identified by the markings on the cartridge case and a yellow projectile tip.

Function:

The projectile impacts with the target. The point detonating fuze functions and an explosion charge within the fuze ignites the smoke composition and ejects it out the base of the projectile.

Tabulated Data:

DODAC	1305-A367
UNO serial number	0012
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Weight	1065 gr

Tracer	NA
Primer	Percussion
Fuze	
Explosive:	
Туре	NA
Weight	
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Туре	Hi Skor 700X
Weight	
Performance:	
	N 10
Chamber pressure	NA
Velocity	
	muzzle; 328 fps,
	15 ft from muzzle

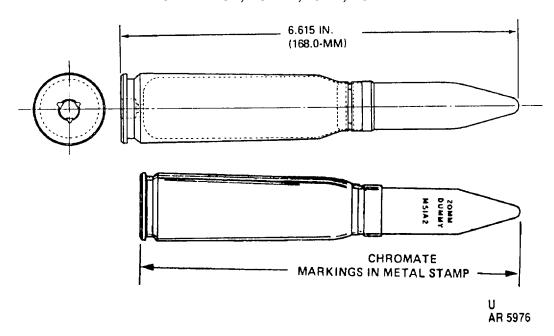
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4S
Storage code	
DOT shipping class	C
DOT designation	SMALL ARMS
-	AMMUNITION
Drawing number	9098293

References:

CHAPTER 14 20MM CARTRIDGES

CARTRIDGE, DUMMY, 20MM, M51A2



Type Classification:

STD - AMCTC 6900.

Use:

Guns, 20mm, M39, M61, M139, M168, M195 and M197. The cartridge is a completely inert assembly used for filling the conveyor system during shipment or storage and for nonfiring system checkout.

Description:

DUMMY Cartridge.

Tabulated Data:

DODAC	1305-A924
Weight	3850 gr
Length	6.615 in. (168 mm)
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:	
Type	NA
Weight	
Propellant:	
Type	NA
Weight	NA
Porformanco	

Performance:

Chamber pressure	NA
Velocity	NA

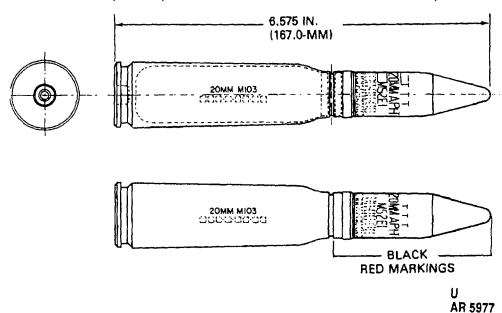
Shipping and Storage Data:

Quantity-distance class/	
SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	
· ·	AMMUNITION
Drawing number	11075758

References:

SB 700-20 TM 9-1005-286-10 TM 9-1300-206

CARTRIDGE, 20 MM, ARMOR PIERCING INCENDIARY-TRACER, M52R1



Type Classification:

STD - OI'CM 37404.

Use:

Guns, 20mm, M39, M61 and M195. The cartridge is used against moderately armed targets and when incendiary effect is needed.

Description:

ARMOR PIERCING INCENDIARY-TRACER Cartridge. The armor piercing shot is the main part of the projectile. The ballsitic cap (ogive) contains an incendiary composition. The cartridge is identified by a projectile painted black with red markings.

Function:

The nose/ogive of the projectile impacts with the target and ruptures, and the incendiary composition ignites upon exposure to the air.

Tabulated Data:

DODAC	1305-A870
Weight	3900 gr
Length	
Tracer	R284
Primer	Electric, M52A3B1
Fuze	NA

Type	NA
Weight	
Incendiary:	
Type	1280
Weight	65 gr
Propellant:	
Type	WC 870 or WC 872
Weight	MBR (585-805)

Performance:

Chamber pressure	60,500 psi
Velocity	3380 fps, 78 ft from
	muzzle

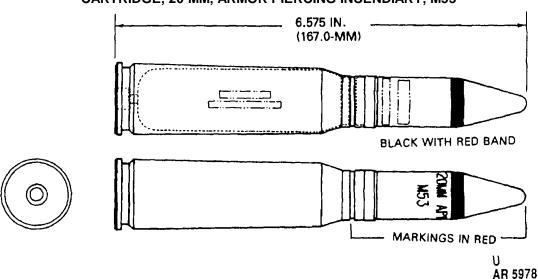
Shipping and Storage Data:

Quantity-distance class/

-, -, -, -, -, -, -, -, -, -, -, -, -, -	
SCG	1.4G
Storage code	Class V
DOT shipping class	Α
DOT designation	AMMUNITION
-	FOR SMALL
	ARMS WITH
	INCENDIARY
	PROJECTILES
Drawing number	7259218

References:

CARTRIDGE, 20 MM, ARMOR PIERCING INCENDIARY, M53



Type Classification:

STD - OTCM 36841.

Use:

Gulls, 20mm, M39, M61 and M168. The cartridge is used against armored targets, and functions with a combined incendiary and penetrating effect.

Description:

ARMOR PIERCING INCENDIARY Cartridge. The body of the projectile is a solid shot made from bar alloy steel. The nose of the projectile is made from aluminum alloy and is charged with three increments of incendiary composition. The projectile is painted black with red band and red markings.

Tabulated Data:

DODAC	1305-A798
Weight	3980 gr
Length	6.575 in. (167 mm)
Tracer	NA
Primer	Electric, M52A3B
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:	
Type	

Type	No. 23 or No. 136
,	and No. 68
Weight	65 gr
Propellant:	
Type	WC 870 or WC 872
Weight	MBR (585-605 gr)

Performance:

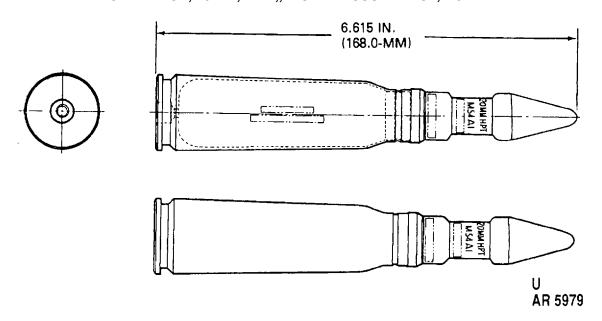
Chamber pressure	60,500 psi
Velocity	3380 fps, 50 ft from
-	muzzle

Shipping and Storage Data:

(Quantity-distance class/	
	SCG	1.4G
	Storage code	
	OT shipping class	Α
	OOT designation	AMMUNITION
		FOR SMALL
		ARMS WITH
		INCENDIARY
		PROJECTILES
	Drawing number	7258802
[OOT shipping class DOT designation	A AMMUNITION FOR SMALL ARMS WITH INCENDIARY PROJECTILES

References:

CARTRIDGE, 20 MM, BALI,, HIGH PRESSURE TEST, M54A1



Type Classification:

STD - AMCTC 6899.

Use:

Guns, Automatic, 20mm, M39 and M61 chambered for the M103 case configuration. The cartridge is used for proof testing of 20mnl weapons and barrels during manufacture and repair.

Description:

BALL Cartridge. The cartridge is a solid steel projectile, under cut behind the ogive to control projectile weight, for developing high chamber pressure. The cartridge is identified by a stannic-stained (silvered) cartridge case.

Tabulated Data:

DODAC	1305-A892
UNO serial number	0339
UNO proper shipping	
name	
	jectiles
Weight	4392 gr
Length	6.615 in. (168 mm)
Tracer	NA
Primer	Flectric M52A3B1

	NA
Explosive:	
Type	NA
	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 870 or WC 872
	MBR

Performance:

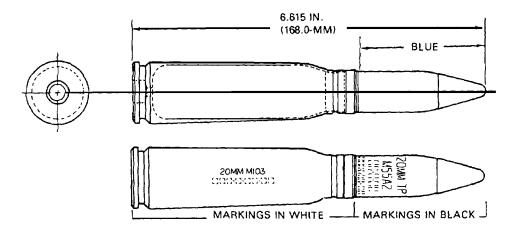
Chamber pressure	62,500 to 72,500
	psi (copper)
Velocity	NA

Shipping and Storage Data:

Explosive hazard class	1
Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
_	AMMUNITION
Drawing number	7258858

References:

CARTRIDGE, 20MM, TARGET PRACTICE, M55A2



U AR 5980

Type Classification:

STD - AMCTC 7741.

Use:

Guns, 20mm, M39, M61 and M68. The cartridge is a training round intended as a substitute for a service round to be used in target practice.

Description:

TARGET PRACTICE Cartridge. The one piece projectile cavity is hollow. The nose (ogive) made of aluminum or steel is swaged to the projectile body. The projectile is painted blue with markings in black. It consists of a solid projectile without a fuze.

Function:

The projectile is inert, therefore no specific function takes place upon impact except penetration of the target.

Tabulated Data:

DODACUNO serial number	
UNO proper shipping name	Cartridges for
1101110	weapons, inert
	projectiles
Weight	3935 gr
Length	6.615 in. (168 mm)
Tracer	NA

Primer	Electric, M52A3B1
Fuze	
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 870 or WC 872
Weight	
_	605 gr)

Performance:

Chamber pressure	60,500 psi
Velocity	3380 fps, 78 ft from
•	muzzle

Shipping and Storage Data:

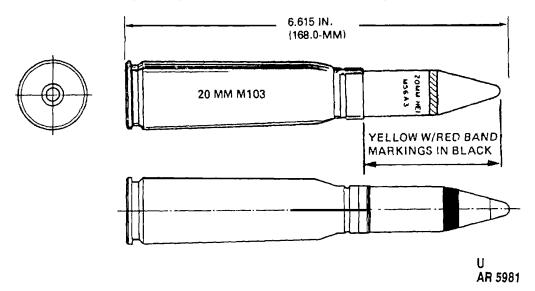
Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	
-	AMMUNITION
Drawing number	7258817

References:

SB 700-20 TM 9-1005-286-10 TM 9-1300-206

14-12

CARTRIDGE, 20MM, HIGH EXPLOSIVE INCENDIARY, M56A3/M56A4



Type Classification:

M56A3: STD - LCC-B, MSR 03816015. M56A4: STD - LCC-A, MSR 03816015.

Use:

Guns, 20mm, M39, M61, M168 and M195. The cartridge is for use against ground targets, including lightly armored vehicles, functioning with both explosive and incendiary effect. The projectile consists of a high explosive incendiary (HEI) charge and is assembled with the M505A3 fuze.

Description:

HIGH EXPLOSIVE INCENDIARY Cartridge. The projectile is thin-walled steel. A base plate is attached to the projectile to prevent ignition of the incendiary mixture by the propellant gases. A point-detonating (PD) fuze is screwed into the nose of the projectile.

Function:

The M505A3 fuze is a point-detonating, singleaction fuze intended to function upon impact with the target.

Difference Between Models:

The models differ in the method of loading the projectiles. The M56A3 has the HE mix and the incendiary mix combined in one pellet. The M56A4 has the incendiary pellet inserted into the projectile, then the HE mix pellet is added. This improves fire start capability.

Tabulated Data:

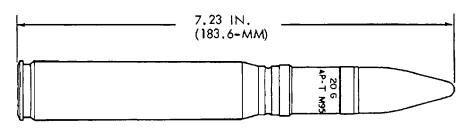
DODAC	. 1305-A890
UNO serial number	. 0321
UNO proper shipping	
name	. Cartridges for
	weapons, with
	bursting charge
Weight	. 3965 gr
Length	
Tracer	
Primer	. Electric, M52A3B1
Fuze	. PD, M505A3
Explosive:	
Type	. H761
Weight	
Incendiary:	_
Type	. l136
Weight	. 20 gr
Propellant:	
Type	. WC 870 or WC 872
Weight	
	605 gr)

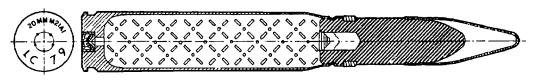
11075861 (M56A4)

Shipping and Storage Data:

14-14

CARTRIDGE, 20MM, ARMOR PIERCING-TRACER, M95





AR 5982

Type Classification:

CON - OTCM 36841.

Use:

Guns, 20mm, M3 and M24A1.

Description:

ARMOR PIERCING-TRACER Cartridge. The projectile is a solid shot type, made from bar or forged steel. A steel windshield is crimped to the forward part of the projectile body. The base of the projectile contains a red tracer composition.

Function:

When the primer is initiated, the propellant ignites. Ignition of the propellant ignites the tracer composition in the base of the projectile. The tracer burns the first 2.25 seconds of projectile flight, or an approximate range of 1,400 yards.

Tabulated Data:

DODAC	1305-A848
Weight	3990 gr
Length	7.23 in. (183.6 mm)
Tracer	
Primer	Percussion

Fuze	NA
Explosive:	
Type	NA
Weight	
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	75-1-177A
Weight	
D (

Performance:

Chamber pressure	51,000 psi
Velocity	2680 fps, 78 ft
•	from muzzle

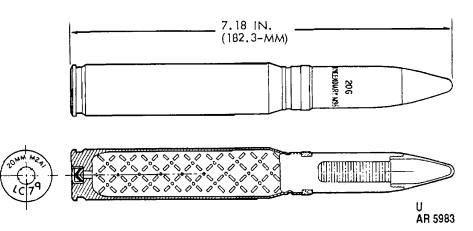
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
-	AMMUNITION
Drawing number	75-1-177

References:

14-16

CART'RIDGE, 20MM, INCENDIARY, M96



Type Classification:

CON - OTCM 36841.

Use:

Guns, 20mm, M3 and M24A1.

Description:

<u>INCENDIARY</u> Cartridge. The body of the projectile is made from cold dracon steel. The projectile nose and body are filled with incendiary composition.

Function:

Impact with the target by the projectile produces compression of the heat and friction sensitive elements in the incendiary mixture causing ignition of the mixture.

Tabulated Data:

DODAC	1305-A776
UNO serial number	0009
UNO proper shipping	
name	Ammunition,
	incendiary

Weight	3850 gr
Length	7.18 in. (182.3 mm)
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	1136
Weight	3.92 oz
Propellant:	
Type	75-1-178A
Weight	470 gr

Performance:

Chamber pressure	51,000 psi
	2680 fps, 78 ft from
•	muzzle

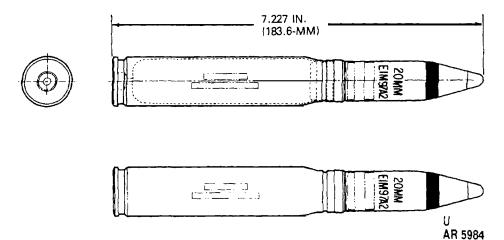
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.2G
Storage code	Class V
DOT shipping class	A

DOT designation AMMUNITION References:

FOR SMALL
ARMS WITH SB 700-20
INCENDIARY TM 9-1300-206
PROJECITLES
Drawing number 75-1-178

CARTRIDGE, 20MM, HIGH EXPLOSIVE INCENDIARY, M97A2



Type Classification:

STD - AMCTC 4376.

Use:

Gun, 20mm, M24A1.

Description:

HIGH EXPLOSIVE INCENDIARY Cartridge. The projectile has a hollow body filled with an incendiary composition and a high explosive (called RDX). The base of the projectile has a base cover and the forward end has a point-detonating (PD) fuze.

Function:

When the primer is initiated, the propellant ignites. Ignition of the propellant provides hot gases to propel the projectile from the weapon. Upon impact, the point detonating fuze functions, initiating the high explosive filler and dispersing the incendiary composition.

Tabulated Data:

1305-A845
4000 gr
7.227 in.
(183.6 mm)
NA
Electric, M52A3B1
PD, M505A3

Explo	sive:
-------	-------

H761
120 gr
NA
NA
WC 875 or
IMR 7013
MBR

Performance:

Chamber pressure	51,000 psi
Velocity	
•	from muzzle

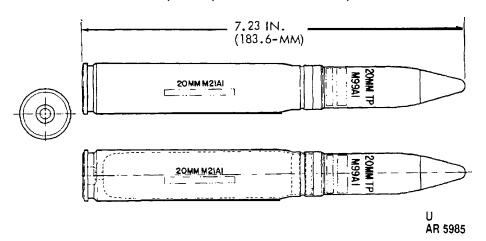
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.2E
Storage code	Class V
DOT shipping class	
DOT designation	
9	FOR SMALL
	ARMS WITH
	EXPLOSIVE
	PROJECTILE
Drawing number	7259063

References:

14-20

CARTRIDGE, 20MM, TARGET PRACTICE, M99A1



Type Classification:

STD - OTCM 37403.

Use:

Gun, 20rmm, M24A1. The cartridge is used for training, gun testing, and gull system function tests.

Description:

<u>TARGET PRACTICE</u> Cartridge. The cartridge contains a hollow, inert projectile which has a cavity to control the weight. The aluminum nose is swaged to the body.

Function:

The projectile is inert, therefore no specific function takes place except target penetration.

Tabulated Data:

DODAC	1305-A847
Weight	4000 gr
Length	7.23 in. (183.6 mm)
Trace	
Primer	Electric, M52A3B1
Fuze	NA

Explosive:	
Type	NA
Weight	
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	IMR 7013 or
	WC 875
Weight	500 gr

Performance:

Chamber pressure	51,000 psi
Velocity	2680 fps, 78 ft
-	from muzzla

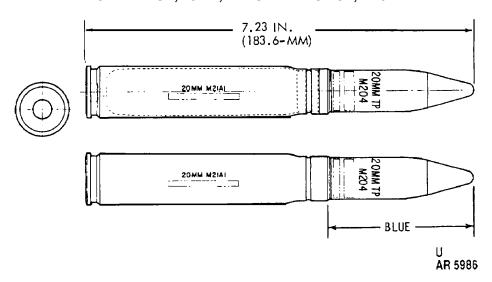
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
-	AMMUNITION
Drawing number	7258849

References:

14-22

CARTRIDGE, 20MM, TARGET PRACTICE, M204



Type Classification:

STD - AMCTC 4762.

Use:

Guns, 20mm, M3 and M24A1. The cartridge with inert projectile is used in training, gun testing, and gun system function testing.

Description:

TARGET PRACTICE Cartridge. The cartridge has a blue painted projectile. The body has a cavity to control the weight and the aluminum nose is swaged to the body.

Function:

No specific function takes place upon impact except target penetration.

Tabulated Data:

DODAC	1305-A777
UNO serial number	0339
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectiles

Weight	4000 ar
	7.23 in. (183.6 mm)
Tracer	
Primer	Percussion, M36A2
Fuze	NA
Explosive:	
Туре	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 875 or
	IMR 7013
Weight	MBR

Performance:

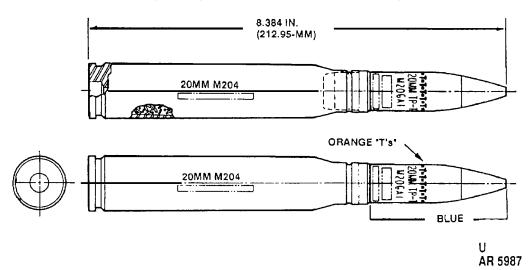
Chamber pressure (max)	51,000 (copper)
Velocity	2680 fps, 78 ft
•	from muzzle

Shipping and Storage Data:

Quantity-distance cla	ISS/
SCG	1.4C
Storage	Class V

DOT shipping class	C	References:
DOT designation	SMALL ARMS	
G	AMMUNITION	SB 700-20
Drawing number	7259106	TM 9-1300-206

CARTRIDGE, 20MM, TARGET PRACTICE -TRACER, M206A1



Type Classification:

STD - AMCTC 4762.

Use:

Gun, 20mm, Automatic, M139. The cartridge is used in training and operation of gun systems with tracer characteristics for visual sighting to target.

Description:

<u>TARGET PRACTICE-TRACER</u> Cartridge. The cartridge has a blue painted projectile body with a row of orange "T's" at the front of the projectile body.

Tabulated Data:

DODAC	1305-A790
UNO serial number	0339
UNO proper shipping	
name	Cartridges for
	weapons, inert
	projectiles
Weight	4886 gr
Length	
9	(212.95 mm)
Tracer	
Primer	Percussion, MI15
Fuze	•

Explosive:	Expl	osive:
------------	------	--------

Type	NA
Weight	
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	CR 8325
Weight	MBR (585-605 gr)

Performance:

Chamber pressure (max)	54,000 (copper)
Velocity	3430 fps, 78 ft
	from muzzle

Shipping and Storage Data:

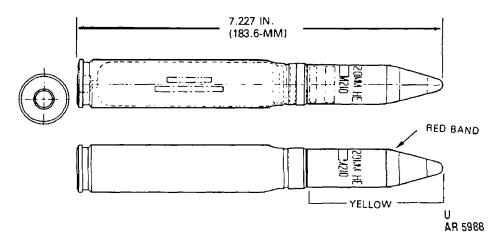
Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
G	AMMUNITION
Drawing number	10542655

References:

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14-26

CARTRIDGE, 20MM, HIGH EXPLOSIVE INCENDIARY, M210



Type Classification:

STD - AMCTC 5433.

Use:

Guns, 20mm, M3 and M24A1. The projectile is effective against aircraft and other targets that are not heavily armored.

Description:

HIGH EXPLOSIVE INCENDIARY Cartridge. The cartridge has a yellow painted projectile body with a red band, approximately ¼ inch wide, at forward end. The projectile has a steel body with a cavity filled with RDX and aluminum and a point-detonating (PD) bore-safe fuze.

Function:

The projectile fuze arms in flight. Upon impact, the fuze detonates the projectile causing fragmentation of the body with an incendiary effect.

Tabulated Data:

DODAC	1305-A863
UNO serial number	0009
UNO proper shipping	
name	Ammunition,
	incendiary

Weight (approx)Length (max)	
	(183.6 mm)
Tracer	
Primer	Percussion, M36A2
Fuze	PD, M505A3
Explosive:	·
Type	H761
Weight	120 gr
Incendiary:	•
Туре	NA
Weight	NA
Propellant:	
Type	WC 875 or
	IMR 7013
Weight	MBR

Performance:

Chamber pressure (max)	51,000 psi (copper)
Velocity	
•	from muzzle

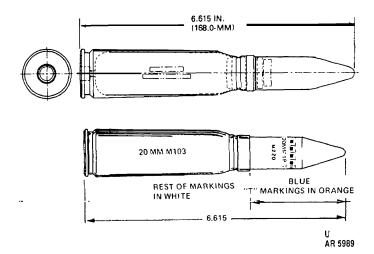
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.2E (0.4)
Storage code	
DOT shipping class	

DOT designation AMMUNITION References:

FOR SMALL
ARMS WITH SB 700-20
EXPLOSIVE TM 9-1300-206
PROJECTILES
Drawing number 7259105

CARTRIDGE, 20MM, TARGET PRACTICE-TRACER, M220



Type Classification:

STD - AMCTC 7404.

Use:

Guns, 20mm, M39, M61 and M168. The cartridge is for practice and training.

Description:

TARGET PRACTICE-TRACER Cartridge. The cartridge is ballistically and physically identical to the M55A2 cartridge except that a tracer element has been added to the base of the projectile. The projectile is painted blue with orange colored markings.

Function:

The projectile is similar to the M56A3 projectile, but has no high explosive incendiary charge and is assembled with a dummy fuze. The projectile does contain a tracer composition which burns visibly for a minimum of 1.9 seconds.

Tabulated Data:

DODACUNO serial numberUNO proper shipping	
name	Cartridges for
	weapons, inert
	projectiles
Weight	
Length	6.615 in. (168 mm)

Tracer	R505 or R403
Primer	Electric
Fuze	NA
Explosive:	
	NA
Weight	NA
Incendiary:	
Type	NA
Weight	
Propellant:	
Type	WC 870 or WC 872
Weight	MBR (585-605 gr)
-	, , ,

Performance:

Chamber pressure	61,500 psi
Velocity	
	from muzzle

Shipping and Storage Data:

Quantity-distance class/	
SCG	
Storage code	Class V
DOT shipping class	A
DOT designation	
-	AMMUNITION
Drawing number	7259146

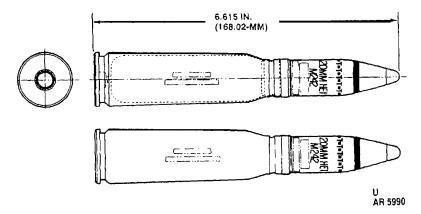
References:

SB 700-20 TM 9-1005-286-10 TM 9-1300-206

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14-30

CARTRIDGE, 20MM, HIGH EXPLOSIVE INCENDIARY-TRACER, M242/M242A1



Type Classification:

M242: STD - AMCTC 6445. M242A1: No Army requirement.

Use:

Guns, 20mm, M39 and M61.

Description:

HIGH EXPLOSIVE INCENDIARY-TRACER Cartridge. The cartridge has the same basic structure as the M56A3 cartridge with the addition of a tracer element.

Function:

The projectile has the same function as the M56A3 high explosive incendiary (HEI) cartridge projectile. The tracer is ignited by the propellant when the round is fired.

Difference Between Models:

The models differ in the method of loading the projectiles. The M242 has the HE mix and the incendiary mix combined in one pellet with the tracer mix added at the base of the projectile. The M242A1 projectile has the incendiary loaded as a separate pellet and the HE mix is also loaded as a separate pellet, then the tracer pellet is added. This improves fire start capability.

Tabulated Data:

DODAC	. 1305-A659
UNO serial number	. 0321
UNO proper shipping	
name	. Cartridges for
	weapons, with
	bursting charge
Weight	
Length	
G	(168.02 mm)
Tracer	R505
Primer	
Fuze	
Explosive:	
Type	H7G1
Weight	
Incendiary:	J
Type	1136
Weight	
Propellant:	· ·
Type	.WC 870 or WC 872
Weight	
Ç	605 gr)
	5 /

Performance:

Chamber pressure	60,500 psi
Velocity	3380 fps, 78 ft
•	from muzzle

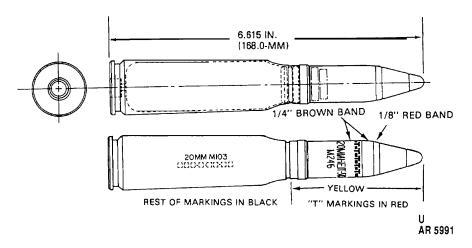
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.2E (0.4)
Storage code	Class V
DOT shipping class	A

DOT designation SMALL ARMS AMMUNITION WITH SB 700-20 EXPLOSIVE TM 9-1300-206 PROJECTILES

Drawing number 7259268 (M242); 9341740 (M242A1)

CARTRIDGE, 20MM, HIGH EXPOSIVE INCENDIARY-TRACER, SELF-DESTROYING, M246/M246A1



Type Classification:

M246: STD - LCC-B MSR 03816015. M246A1: STD - LCC-A MSR 03816015.

Use:

Gun, 20mm, M168. The cartridge is for use against aerial targets.

Description:

<u>HIGH EXPLOSIVE INCENDIARY-TRACER, SELF-DESTROYING</u> Cartridge.

Function:

The cartridge is assembled with an M505A3 point-detonating (PD) fuze. The projectile, in addition to the M505A3 fuze, consists of a high explosive incendiary (HEI) charge, self-destroying (SD) relay charge, and a tracer charge. These charges form the SD chain. The tracer burns for about 3 to 7 seconds, whereupon the relay charge is ignited which detonates the HEI charge low order. If impact with target occurs prior to self-destruction, the M505A3 fuze causes the HEI charge to detonate high order.

<u>Difference Between Models:</u>

The basic difference between the models is in the loading of the projectiles. In the M246 projectile, the

incendiary mix and the HE mix are combined in one pellet. In the M246A1 projectile, the incendiary is loaded as a separate pellet. The HE mix is also loaded as a separate pellet along with the SD relay charge pellet and the tracer charge pellet. This improves fire start capability.

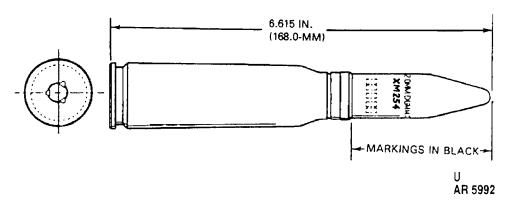
DODAC: M246 M246A1 UNO serial number UNO proper shipping	1305-A792 0321
name	•
	weapons, with
Weight	bursting charge
Length	
Tracer	
Primer	
Fuze	
Explosive:	,
Туре	H761
Weight	
Incendiary:	
Туре	
Weight	NA
Propellant:	
Type	WC 870
Weight	MBR (585-605 gr)

DOT designation AMMUNITION Performance: FOR SMALL Chamber pressure......60,500 psi **EXPLOSIVE PROJECTILES** Velocity......3380 fps, 50 ft from muzzle Drawing number: M246 10542384 **Shipping and Storage Data:** M246A1 9333764 References: Quantity-distance class/ SCG.......1.2E (0.4) Storage code......Class V SB 700-20 TM 9-1005-286-10 DOT shipping class A

14-34

TM 9-1300-206

CARTRIDGE, DUMMY, 20MM, XM254



Type Classification:

Not applicable.

Use:

Guns, 20mm, M39, M61, M139, M168, M195 and XM197. The cartridge is for training of crews. The plastic material, instead of steel, reduces wear on gull components and fire mechanisms.

Description:

<u>DUMMY</u> Cartridge. The cartridge is of plastic construction.

Tabulated Data:

DODAC	. 1305-A895
Weight	. 3850 gr
Length	. 6.615 in. (168 mm)
Tracer	. NA
Primer	. NA
Fuze	. NA
Explosive:	
Type	. NA
Weight	. NA

Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	NA
Weight	

Performance:

Chamber pressure	NA.
Velocity	NA.

Shipping and Storage Data:

Quantity-distance class/	
SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	NA
Drawing number	7259254

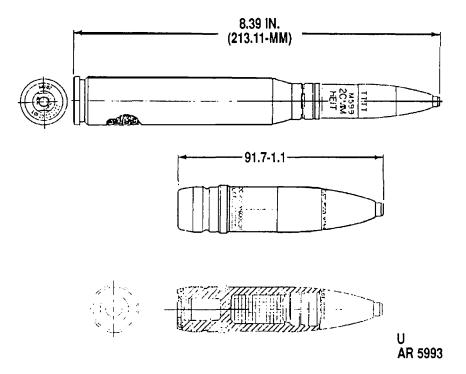
References:

SB 700-20 TM 9-1005-246-24 TM 9-1005-286-10 TM 9-1300-206

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14-36

CARTRIDGE, 20MM, HIGH EXPLOSIVE INCENDIARY-TRACER, M599 FUZE POINT-DETONATING SELF-DESTROYING M594



Type Classification:

STD - AMCTC 6391.

Use:

Gun, M139.

Description:

HIGH EXPLOSIVE INCENDIARY-TRACER Cartridge. The cartridge has a point-detonating (PD) self-destroying (SD) fuze M594. The projectile is a hollow body filled with 120 grams of high explosive incendiary (HEI) mixture with a tracer tablet at the base and the PD SD fuze screwed onto the nose.

Function:

When fired, the weapon firing pin initiates the primer which ignites the propelling charge. Gases produced by the burning propellant propel the projectile. The projectile shall function with high order detonation upon impact or, if the projectile does not impact on intended

target within 4 to 7 seconds, a SD mechanism will cause high order detonation of the projectile.

DODAC	1305-A787
UNO serial number	
UNO proper shipping	0021
name	Cartridges for
1101110	weapons, with
	bursting charge
Type	
Type	
Weight (approx)	
Length	8.39 in.
	(213.11 mm)
Projectile (steel):	
Tracer	Tablet, 1.17 g
Explosive (HEI mix)	120 g
Fuze	
	aluminum
Color	Yellow with red
	"T" band, black
	markings
Cartridge case	0
Propellant	
Primer percussion	

Performance:

Shipping and Storage Data:

Quantity-distance class/ SCG	1.2F
Storage code	
DOT shipping class	
DOT designation	SMALL ARMS
	AMMUNITION
	WITH
	EXPLOSIVE
	PROJECTILE

M528 shipping and storage	e container:
Material	Steel
Dimensions	14-9/16 x 9-39/64 x
	4-5/16 in.
Cube	0.35 cu ft

Drawing number C/R..... 10535815

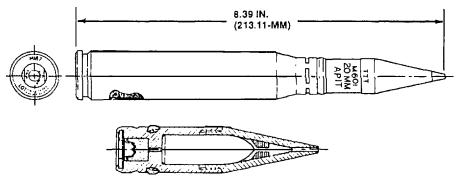
Packing:

25 cartridges, 20mm linked with M601 armor piercing incendiary-tracer, cartridges in ratio with 3 M599 to 2 M601 in shipping and storage containers M528. Two shipping and storage containers (50 cartridges) in a wire-bound box.

References:

DARCOM 700-3-2 TM 9-1300-206

CARTRIDGE, 20MM, ARMOR PIERCING INCENDIARY-TRACER, M601



U AR 5994

Type Classification:

STD - AMCTC 4762.

Use:

Gun, M139.

Description:

ARMOR PIERCING INCENDIARY-TRACER Cartridge. The tungsten-carbide core is the main part of the projectile, and is the penetrator. The ballistic cap (ogive) contains an incendiary pellet. A tracer tablet is at the base of the projectile. The projectile body is painted black with white markings and with red painted "T's" encircle the ogive (signifying tracer).

Function:

When fired, the weapon firing pin initiates the primer which ignites the propelling charge. Gases produced by the burning propellant propel the projectile. Upon impact with the target, the nose (ogive) ruptures and the incendiary composition ignites on exposure to the air.

Complete round:	
UNO serial number	. 0009
UNO proper shipping	
name	. Ammunition,
	incendiary
DODAC	•
Type	
Weight	
Length	
_ 0g	(213.112 mm)
Cannon used with	
Projectile (111 g):	. 101 100
Penetrator (core)	Tungsten-carbide
Body	
Body	· · · · · · · · · · · · · · · · · · ·
Windshield	22.5 g
Incendiary	
Tracer	
Fuze	
Color	
	marking with "T"
	red bound
Cartridge case	. Steel, M187
Propellant (VTL 1375-502):	
Weight (approx)	. 53 g
Primer (percussion)	. M103
to the second se	

Performance:

Shipping and Storage Data:

Quantity-distance class/ SCG	1 4G
Storage code	
DOT shipping class	
DOT designation	SMALL ARMS
_	AMMUNITION
	WITH
	INCENDIARY
	PROJECTILE

M528 shipping and stor	age container:
Material	Steel
Dimensions	14-9/16 x 9-39/64 x
	4-5/16 in.
Cube	0.35 cu ft

Drawing number C/R......10535805

Packing:

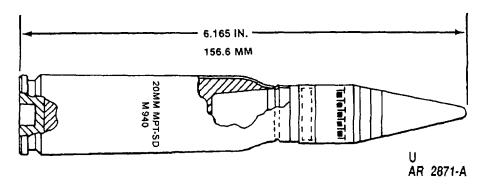
25 cartridges, 20mm linked with M599 high explosive incendiary-tracer cartridges in a ratio of 3 M599 to 2 M601 in shipping and storage container M528. Two containers in a wrap-around crate.

References:

DARCOM 700-3-2 TM 9-1300-206

14-40

CARTRIDGE, 20MM, MULTIPURPOSE TRACE SELF-DESTROYING, M940



Type Classification:

TC STD A - Approved March 13, 1989.

Use:

The existing Vulcan Air Defense System (VADS) and Product Improved Vulcan Air Defense System (PIVADS) M246 ammunition is incapable of providing defense against the modern enemy threat at combat ranges greater than 1,600 meters because of inherent performance limitations including poor characteristics, self-destroying ranges, and terminal effectiveness. Therefore, the Army decided to pursue acquiring a new round of ammunition for VADS/PIVADS which would exhibit better exterior ballistics and greater lethality than the existing M246 High Explosive Self-Destroying Incendiary Tracer (HEI-T-SD) ammunition.

Description:

MULTIPURPOSE TRACE SELF-DESTROYING Cartridge. The cartridge is an improved fuzeless pyrotechnic initiated 20mm HE cartridge. The projectile consists of a heavy walled steel body charged with explosive mix and an incendiary mix, and an aluminum nose charged with another incendiary mix. The projectile also has safe and arming (S&A), tracer, and self-destroying which is initiated by heat from combustion of the tracer composition. The lack of fuze permits an enhanced aerodynamic ogive shape which results in a reduction in drag factor and reduced time of flight, thereby extending the effectiveness of the VADS from 1,200 meters to 2,000 meters against aircraft targets. The M940 will replace the 20mm M246 HEI-T-

SD as the primary air defense cartridge for the VADS and any of its improved versions.

Function:

The projectile consists of a steel body charged with a HE mix, Composition A-4 (MILC-440), and an incendiary mix, Type I (equivalent I-68). The projectile has an aluminum nose charged with Type II incendiary (equivalent I-136). The hardened forebody of the projectile provides for defeat of lightweight armor (3/8 RHA at well over 500 m). The incendiaries provide a built-in delay when initiated on the thin skin of an aircraft, and the projectile explodes approximately 1 foot The M94 cartridge, therefore, is behind the skin. primarily intended for air defense but has a secondary roll against light armored vehicles. The M940 contains a chemical S&A intended to reduce the probability of functioning on a 0.04 aluminum plate at 1 meter from the muzzle. When initiated, all projectile fragments go forward.

or	mplete round:	
	UNO serial number	0321
	UNO proper shipping	
	name	Cartridges for
		weapons, with
		bursting charge
	DODAC	1305-A710
	Type	MPT-SD
	Weight	
	Length (max)	
	- ,	(156.6 mm)
	Cannon used with	M168

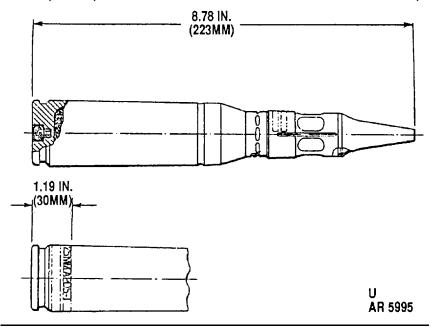
Projectile:		Performance:	
Tracer-modified	R505		
Primer-electric	M52A3B1	Chamber pressure (max)	60,500 psi
Fuze	NA	Velocity	
Explosive:			
Type Weight		Shipping and Storage Data:	
ŭ	3	DOD hazard class/division/	
Incendiary:		SCG	08 (1.2E)
Type	1	DOT shipping class	
Weight		DOT designation	
Incendiary:	G	WEAPONS	
Type	II	Drawing number	12551767
Weight	3 g	NSN	
Incendiary:	_		
Type	Potassium Perchlorate	References:	
Weight	0.2 g	TM 9-1300-206	
Propellant:			
Туре	WC 866		
Weight	37 g		

CHAPTER 15

25MM CARTRIDGES

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CARTRIDGE, 25MM, ARMOR PIERCING DISCARDING SABOT-TRACER, M791



Type Classification:

STD - MSR 12796010.

Use:

Automatic cannon, 25mm, M242.

Description:

ARMOR PIERCING DISCARDING SABOTTRACER Cartridge. The cartridge is a fixed type, percussion primed 25mm ammunition, intended as the armor piercing service round to successfully engage lightly armored vehicles. The cartridge consists of a sabot encapsulated projectile body, crimped to a steel cartridge case containing 98 grams of extruded propellant, M115 percussion primer and booster pellet. The projectile body consists of a solid tungsten alloy penetrator, pressed on aluminum windshield, pressed-in tracer pellets, molded discarding-type nylon sabot, staked aluminum base and pressed-on polythylene nose cap.

Function:

When fired, the weapon firing pin initiates the primer which ignites the propelling charge. Gases produced by the burning propellant propel the projectile from the cannon and ignite the tracer. Setback, centrifugal and air pressure forces cause the sabot to discard upon leaving the gun tube. The penetrator (core) is spin stabilized and penetrates the target solely by kinetic energy.

Tabulated Data:

Cor	nplete round:	4005 4074
	DODAC	
	UNO serial number	0339
	UNO proper shipping	
	name	Cartridges for
		weapons, inert pro-
		jectile
	Type	APDS-T
	Weight	458 ± 15 g
	Length	
	Cannon used with	M242 ` ′
Pro	jectile:	
	Penetrator (core)	Tungsten-allov
	Sabot	
		base
	Nose cap	Polyethylene
	Tracer	
	Explosive	
	Fuze	
	Color	
Dro	00101	markings
	Cartridge case	
	pellant:	C 1030 Steel
FIU		Dodford ADODE
	Type	A 224 lb
	Weight	
	Primer percussion	WIT15

Performance:

Chamber pressure	56,000 psi
Range	15,000 m
Muzzle velocity	1330 mps, 4370 fps

Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	Class IV
DOT shipping class	A
DOT designation	
_	FOR CANNON
	WITH SOLID
	PROJECTILE
M621 shipping and storage:	
Material	Polypropelene
	plastic
Weight (tactically	·
packed)	47.7 lb
Weight (empty)	

Dimensions	. 13.8 x 13.8 x 5.5 in
Drawing number C/R	. 12013533

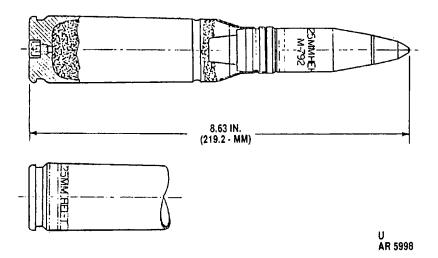
Packing:

Tactical packing unit 30 linked cartridge in two 15-round belts packed nose-to-nose with two plastic separators in plastic shipping and storage container M621.

References:

DARCOM 700-3-2 TM 9-1300-206

CARTRIDGE, 25MM, HIGH EXPLOSIVE INCENDIARY-TRACER, M792 WITH FUZE POINT-DETONATING SELF-DESTROYING M758



Type Classification:

STD - MSR 12796010.

Use:

Automatic cannon, 25mm, M242.

Description:

HIGH EXPLOSIVE INCENDIARY-TRACER Cartridge. The cartridge is a fixed type, percussion primed 25mm munition, intended as the high explosive service round to successfully engage unarmored ground targets. The cartridge consists of a high explosive incendiary (HEI) filled, one piece projectile body that is crimped to a steel cartridge case containing 90 grams of ball propellant, M115 percussion primer and booster pellet. The projectile body consists of a hollow C1045 steel body, screwed on M758 fuze, swaged iron rotating band, 32 grams of H761 HEI mix and pressed-in tracer pellets. Projectile length, including tracer boom, varies by manufacturer from 3.94 to 4.66 inches.

Function:

When fired, the primer is mechanically initiated by the weapon firing pin. The primer output ignites the booster pellet which, in turn, ignites the propellant charge. The projectile is launched at a velocity of 1100 meters per second, achieving a maximum effective range of 3000 meters. Upon impact, the fuze functions and the HEI filler detonates dispersing the incendiary mixture. The self-destroying requirement is 6.2 seconds per minute and prior to impact.

Complete round:	
DODAC	1305-A975
UNO serial number	0321
UNO proper shipping	
name	Cartridges for
	weapons, with
	bursting charge
Туре	
Weight	1.11 lb
	8.63 in. (219.2 mm)
Projectile:	,
Body	Steel, C1045
Tracer	
Explosive (HEI mix)	
Fuze	
Color	
	band and black
	markings
Cartridge case	
Propellant:	,
Type	WC 890
Weight	90 q
Primer percussion	

Performance:

 Range
 3000 m

 Muzzle velocity
 1100 mps, 3610 fps

 Self-destruct
 6.2 mps

Shipping and Storage Data:

Quantity-distance class/	
SCG	1.2E
Storage code	Class IV
DOT shipping class	A
DOT designation	
-	FOR CANNON
	WITH
	EXPLOSIVE

PROJECTILE

Material Polypropelene
Weight (tactically packed) 47.7 lb
Weight (empty) 7.94 lb
Dimensions 13.8 x 13.8 x 5.5 in.
Drawing number 12013230

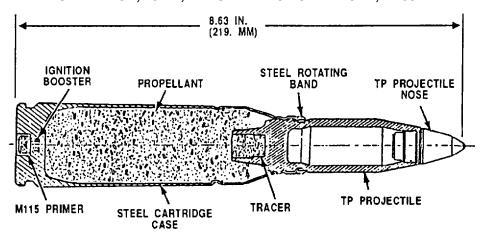
Packing:

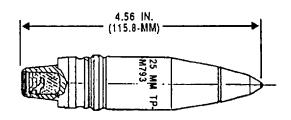
Tactical packing unit 30 linked cartridge in two 15round belts packed nose-to-nose with two plastic separators in plastic shipping and storage container M621.

References:

DARCOM 700-3-2 TM 9-1300-206

CARTRIDGE, 25MM, TARGET PRACTICE-TRACER, M793





U AR 5999

Type Classification:

STD - MSR 12796010.

Use:

Automatic cannon, 25mm, M242.

Description:

TARGET PRACTICE-TRACER Cartridge. The cartridge is a fixed type, percussion primed 25mm munition, intended as a substitute for the high explosive incendiary with tracer service round for target practice in training, gun testing, and gun system functioning. The cartridge consists of a hollow, two piece projectile body that is crimped to a steel cartridge case containing 90 grams of ball propellant, M115 percussion primer and booster pellet. The projectile body consists of a hollow C1035 steel body screw-on steel nose piece, swaged iron rotating even band and pressed-in tracer pellets.

Function:

The cartridge functions the same as the M792, except upon impact the projectile is inert.

Complete round:	
DODAC	
UNO serial number	0339
UNO proper shipping	
name	Cartridges for
	weapons, inert pro-
	jectile
Type	TP-T
Weight	
Length	
mm)	,
Projectile:	
Body	Steel C1035/12/14
	01001, 01000, 12, 11
Tracer	
Tracer	Pellet
Tracer Explosive	Pellet NA
Tracer	Pellet NA NA
Tracer Explosive Fuze	Pellet NA NA Blue with white
TracerExplosiveFuze	Pellet NA NA Blue with white markings
Tracer Explosive Fuze Color Cartridge case	Pellet NA NA Blue with white markings
Tracer	Pellet NA NA Blue with white markings C1030
Tracer	Pellet NA NA Blue with white markings C1030 WC 890
Tracer	Pellet NA NA Blue with white markings C1030 WC 890 0.3 lb

Performance:

WITH EMPTY **PROJECTILE**

Muzzle velocity3609 fps, 78 ft from muzzle

Shipping and Storage Data:

Quantity-distance class/ SCG1.4C Storage code 11 B DOT shipping classClass B

DOT designation AMMUNITION FOR CANNON

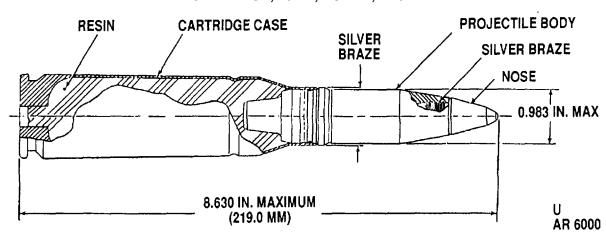
Packing:

Tactical packing unit 30 linked cartridge in two 15round belts packed nose-to-nose with two plastic separators in plastic shipping and storage container M621.

References:

DARCOM 700-3-2 TM 9-1300-206

CARTRIDGE, 25MM, DUMMY, M794



Type Classification:

STD - DA Letter December 1981.

Use:

Automatic cannon, 25mm, M242. The cartridge is used for non-firing system checkout for the 25mm automatic cannon M242 and training of the crew.

Description:

<u>DUMMY</u> Cartridge. The cartridge is a modified M793 target practice with tracer (TP-T) projectile silver brazed to a modified standard cartridge case and is completely inert. The cartridge case cavity is filled through an enlarged primer hole with an epoxy resin filler to approximate the weight of the M792 high explosive incendiary-tracer and M793 TP-T service cartridges. The threaded nose of the TP-T projectile is silver brazed to the projectile body to improve physical integrity. The external configuration of the M794 metal dummy cartridge (by use of standard components) is the same as that of the M792 HEI-T and M793 TP-T service cartridges.

Tabulated Data:

Complete round:	
DODAC	1305-A967
Type	Dummy, inert
Weight (w/o link)	1.11 lb
	8.63 in. (219 mm)
Projectile:	,

Body	Steel, C1035
Tracer	
Explosive	NA
Fuze	
Color	Silver braze
Cartridge case	Steel, C1030
Propellant:	
Filler	Epoxy resin
(polyurethane)	
Primer	NA

Performance:

Chamber pres	sure	NA
Velocity		NA

Shipping and Storage Data:

Quantity-distance class/

SCG	NA	
Storage code	NA	
DOT shipping class		
DOT designation		
<u> </u>	AMMUNITION	
M621 shipping and storage container:		
Material	Polypropelene	
	plastic	
Length (max)	14.3 in.	
Width (max)		
Height (max)	5.7 in.	
Packaged weight (30		
linked rounds)	47.7 lb	

Wooden box: 32.5 in. Length 32.5 in. Width 11.5 in. Height 12 in. Weight: Packed (40 rounds with link) 85.3 lb Packed (80 rounds without link) 119 lb

Drawing number 12013880

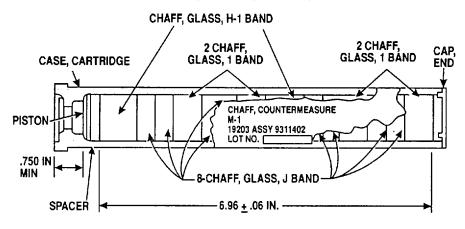
Packing:

Packing consists of 30 linked cartridges in two 15-round belts in M621 plastic shipping and storage containers, or Packing consists of 50 linked cartridges in a wooden shipping and storage container, or Packing consists of 80 tubed cartridges in a wooden shipping and storage container.

References:

DARCOM 700-3-2

CARTRIDGE, 25.4MM, DECOY, M839



CARTRIDGE, 25.4MM, DECOY M839 19200 ASSY 9329609 LOT NO. 8.08 IN. (205.2-MM) U AR 6001

Type Classification:

STD - MSR 02816005.

Use:

The cartridge is a decoy to provide an effective survival counter-measure for Army aircraft against radar controlled weapon systems.

Description:

<u>DECOY</u> Cartridge. The cartridge is ammunition item consisting of a plastic outer case nominally 1-inch wide x 1-inch high x 8-inches long, a payload made up of approximately 390,000 strands of aluminum coated glass fibers. The payload is sectioned into several bundles of chaff dipoles. There are three different lengths of bundles in the payload. In addition, the item contains a plastic end cap, plastic piston, felt spacer, and impulse cartridge.

Function:

The cartridge is fired by electrical initiation of the impulse cartridge M796. The gases generated by the functioned impulse cartridge causes the piston to expel the chaff payload into the air where it blooms into a

radar reflecting cloud that breaks "Lock On" by radar-controlled weapon systems.

Complete round: DODAC UNO serial number UNO proper shipping name Type Weight Length Body Explosive Fuze Color Drawing number	0454
Specification number Payload:	
Chaff Weight	glass rods
Expelling charge:	
Weight	smokeless powder
Impulse cartridge	M796

Shipping and Storage Data:

Quantity-distance class/

DOT designation ELECTRIC

SQUIB, CLASS C EXPLOSIVE, HANDLE CAREFULLY

Packing box:

Weight......67 lb

Dimensions......14.25 x 13.27 x

12.8 in.

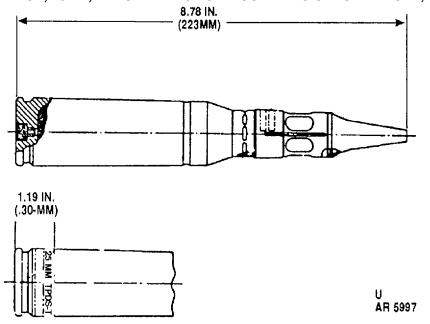
Packing:

Two PA19 metal containers containing 50 decoy cartridges each (width-size) in wood box.

References:

TM 9-1300-206

CARTRIDGE, 25MM, TARGET PRACTICE DISCARDING SABOT-TARGET, M910



Type Classification:

To be approved.

Use:

Automatic cannon, 25mm, M242.

Description:

TARGET PRACTICE DISCARDING SABOTTRACER Cartridge. The cartridge is a fixed type, percussion primed 25mm ammunition, intended as a training substitute for armor piercing service ammunition. The cartridge consists of a sabot encapsulated projectile body, crimped to a steel cartridge case containing 97 grams of extruded propellant, M115 percussion primer and booster pellet. The projectile body consists of a solid steel core, pressed-on aluminum windshield, pressed-in tracer pellets, molded discarding-type nylon sabot, staked aluminum base and pressed-on polyethylene nose cap.

Function:

When fired, the weapon firing pin initiates the primer which ignites the propelling charge. Gases produced by the burning propellant propel the projectile through the barrel and ignite the tracer. Centrifugal and air pressure forces cause the sabot, protective cap, and aluminum base to discard upon leaving the barrel. The high mass flow tracer decreases the base drag, allowing the spin-stabilized core to match the armor piercing

round trajectory to a range of 2000 meters. Upon tracer burnout, the lightweight core loses velocity rapidly and eventually tumbles when its velocity goes below the speed of sound.

Complete round: DODACUNO serial numberUNO proper shipping	. 1305-A940 . 0328
name	weapons, inert pro- jectile
Туре	. TPDS-T
Weight	. 421 ± 15 q
Length	8 78 in (223 mm)
Cannon used with	M242
Projectile:	
	Stool
Core Sabot	Nylon aluminum
Sabot	
Nana ann	base
Nose cap	. Polyetnylene
Tracer	
Explosive	. NA
Fuze	. NA
Color	
	markings
Cartridge case	Steel C1030
Propellant:	. 0.001, 0.1000
	Evero VDD51C4
Type	0.244 lb
Weight	. U.Z 14 ID
Primer Percussion	. M115

	Per	<u>form</u>	<u>ıan</u>	ce:
--	-----	-------------	------------	-----

Shipping and Storage Data:

DOD hazard class/SCG Storage class DOT designation DOT label UN serial number	
M621 shipping and storage: Material	Polypropylene
	plastic

Weight (tactically	
packed)	45 lb
Weight (empty)	8 lb
Dimensions	13.8 x 13.8 x 5.5 in.
Drawing number (for	
packing M910 in	
M621)	12556515

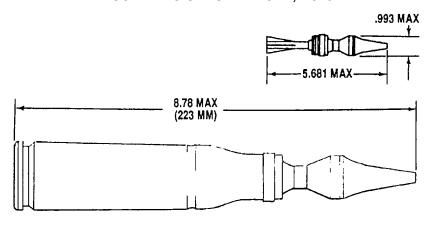
Packing:

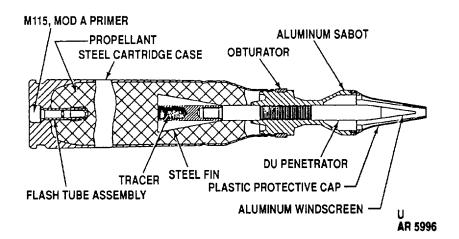
Tactical packing unit 30 linked cartridges in two 15-round belts packed nose-to-nose with two plastic separators in plastic shipping and storage container M621.

References:

DARCOM 700-3-2 TM 9-1300-206

CARTRIDGE, 25MM, ARMOR PIERCING FIN STABILIZED DISCARDING SABOT-TRACER. M919





Type Classification:

STD.

Use:

Automatic cannon, 25mm, M242.

Description:

ARMOR PIERCING FIN STABILIZED DISCARDING SABOT-TRACER Cartridge. The cartridge is a fixed type, percussion primed 25mm ammunition, intended to supersede the M791 for use in combat. The cartridge consists of a subcaliber projectile inside an aluminum sabot, crimped to a steel cartridge case containing 97 grams of extruded propellant, modified M115 percussion primer and flash tube. The subprojectile consists of a depleted uranium penetrator with a pressed-on aluminum windscreen and a threaded

steel fin with pressed-in tracer pellets. The three piece aluminum sabot utilizes a nylon obturator and a polyethylene nose cap.

Function:

When fired, the weapon firing pin initiates the primer which ignites the propelling charge. Gases produced by the burning propellant propel the projectile through the barrel and ignite the tracer. Centrifugal, air, and gas pressure forces cause the obturator, sabot, and nose cap to discard upon leaving the barrel. The low drag subcaliber projectile travels along its trajectory stabilized by the fin and a small amount of spin. The tracer allows visual contact with the fired round as it travels downrange. Upon impact, kinetic energy stored in the subprojectile causes it to punch through an armored target and inflict considerable damage inside, prohibiting any further use of the target.

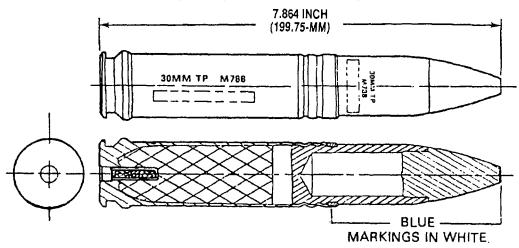
Tabulated Data:		Weight	
Complete round:		•	
DODAC	1305-A986	Performance:	
UNO serial number	0328		
UNO proper shipping		Chamber pressure	56,000 psi
name	Cartridges for	Muzzle velocity	
	weapons, inert pro-	·	·
	jectile	Shipping and Storage Data:	
Type			
Weight		DOD hazard class/SCG	1.2C
Length	8.78 in. (223	Storage code	Class B explosive
mm)		DOT designation	AMMUNITION
Cannon used with	M242		FOR CANNON
Projectile:			WITH SOLID
Core	•		PROJECTILES
Sabot		UN serial number	0328 and 2912
Nose cap			
Tracer	•	Packing:	
Explosive	NA		
Fuze		Tactical packing unit 30 li	nked cartridges in two
Color	Black and white	15-round belts packed nose-to-	
	obturator	separators in plastic shipping	
Cartridge case	Steel, C1030	M621.	G
Propellant:			
Туре	Hercules HES9053		

CHAPTER 16

30MM CARTRIDGES

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CARTRIDGE, 30MM, TARGET PRACTICE, M788



U AR 6002

Type Classification:

STD.

Use:

Automatic cannon, 30mm, XM230 (U.S.), ADEN MK IV (NATO), DEFA 552/553 (NATO). The cartridge is used in target practice.

Description:

TARGET PRACTICE Cartridge. The cartridge has a blue painted projectile with white markings. The inert/solid projectile is a three piece assembly consisting of steel body with cavity, rotating band, and aluminum nose piece. The cartridge case is aluminum.

Function:

The cartridge consists of an inert, solid projectile without a fuze. No function takes place except penetration of target.

Tabulated Data:

DODAC	1305-B118
UNO serial number	0339
UNO proper shipping	
name	
	weapons, inert pro-
	jectile
Weight	5371 gr
Length	7.864 in.
	(199.75 mm)

Tracer	NA
Primer	Electric, PA520
Fuze	
Explosive:	
. Type	NA
Weight	
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	WC 855
Weight	

Performance:

Chamber pressure (av	g)40,600 to 44,950
•	psi (280-310 MPa)
Velocity	

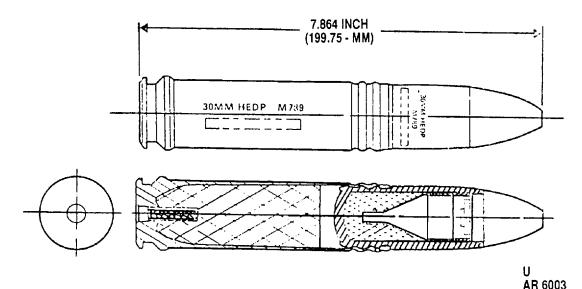
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	B
DO' designation	AMMUNITION
FOR CANNON	
WITH SOLID	
PROJECTILES	
Drawing number	28114038

References:

SB 700-20 TM 9-1300-206

CARTRIDGE, 30MM, HIGH EXPLOSIVE DUAL PURPOSE, M789



Type Classification:

STD.

Use:

Automatic cannon, 30mm, M230 (U.S.).

Description:

HIGH EXPLOSIVE DUAL PURPOSE Cartridge. The cartridge consists of a steel projectile body loaded with HMX explosive and spin compensated shaped charge liner, point detonating (PD) bore safe fuze and aluminum cartridge case.

Purpose:

The projectile fuze arms in flight. Upon impact, the fuze initiates the projectile explosive filler. Detonation of the filler charge collapses the shaped charge liner resulting in the formation of an armorpiercing jet. In addition, main charge detonation produces fragmentation of the projectile body resulting in antipersonnel effects in target vicinity.

Tabulated Data:

DODAC	1305-B129
UNO serial number	0321
UNO proper shipping	q

name	Cartridges for
	weapons, with
NAZ * 1 4	bursting charge
Weight	
Length	
	(199.75 mm)
Tracer	NA
Primer	Electric, PA520
Fuze	PD, M759
Explosive:	
Type	PBXN-5
Weight	340 gr
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Туре	WC 855
Weight	

Performance:

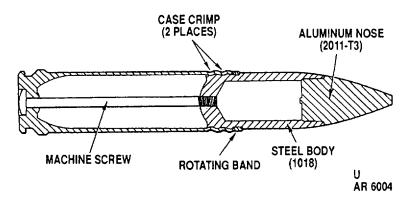
Chamber	pressure (avg)	40,000 to 44,950
	. , ,	psi (280-310 MPa)
Velocity		2640 fps (805 mps)

Shipping and Storage Data:

Quantity-distance cia	ass/
SCG	1.2E (0.4)
	Class V
DOT shipping class	

DOT designation	AMMUNITION	References:
_	FOR CANNON	
	WITH SOLID	SB 700-20
	PROJECTILES	TM 9-1300-206
Drawing number	28114062	

CARTRIDGE, 30MM, DUMMY, M848



Type Classification:

STD - LCC-A MSR 04826009.

Use:

Automatic cannon, 30mm, M230. The cartridge is used in drills of the weapon mechanism and to test link/delink functions.

Description:

<u>DUMMY</u> Cartridge. The cartridge is completely inert with modified target practice (TP) projectile and cartridge case. Primer and propellant are replaced with threaded steel bolt attached to the base of the projectile body to maintain same weight and balance as the TP cartridge. The projectile body is steel with an aluminum nose.

Tabulated Data:

DODAC	\ /	1305-B134
Weight		5445 gr
Length		199.75 mm
Tracer		NA
Primer		NA
Fuze		NA

Explosive:

Type	NA
Weight	
Incendiary:	
Type	NA
Weight	
Propellant:	
	NA
Weight	
Projectile:	
Length	104.28 mm
Case	Aluminum

Performance:

Chamber pressure	NA
Velocity	NA

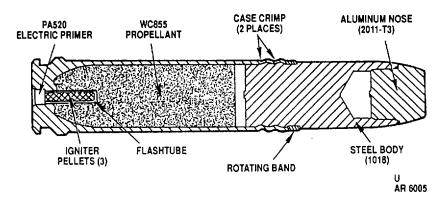
Shipping and Storage Data:

NA
NA
NA
NONEXPLOSIVE
AMMUNITION
11825935

References:

DARCOM 700-3-2

CARTRIDGE, 30MM, TEST, M883



Type Classification:

STD - LCC-A, MSR 06827003.

Use:

Automatic cannon, 30mm, M230. The cartridge is used in proof testing the weapon and barrel.

Description:

TEST Cartridge. The cartridge is a high pressure test round which provides 120 percent chamber pressure to proof test the weapon and barrel. Case, primer, and propellant are identical to the target practice round. Excess pressure is achieved through a heavier 1018 steel projectile. Ogive is blunt and cartridge case is silvered to distinguish from service rounds.

Tabulated Data:

DODAC	· '	1305-B135
UNO se	rial number	0321
UNO pro	oper shipping	
nam		Cartridges for weapons, with bursting charge
Weight		
Length		174.35 mm
Tracer		NA
Primer		Electric, PA520
Fuze		NA

NA
NA
NA
NA
WC 855
772 gr
5031 gr
79.13 mm

Performance:

Chambe	er pressure	NA
Velocity		NA

Shipping and Storage Data:

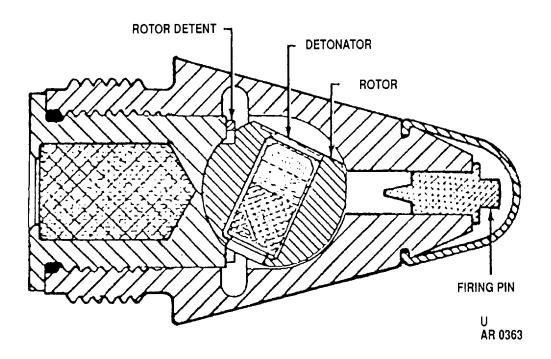
Quantity-distance class/	
SCG	1.4C
Storage code	Class V
DOT shipping class	
DOT designation	
· ·	FOR CANNON
	WITH SOLID
	PROJECTILES
Drawing number	11895941

References:

DARCOM 700-3-2

CHAPTER 17 POINT-DETONATING FUZES

FUZE, POINT-DETONATING: M505A3



Type .Classification:

STD.

Use:

The fuze is designed for use with the 20mm high explosive incendiary (HEI) and high explosive incendiary with tracer (HEI-T) cartridges against aircraft and light armor.:

Description:

The point-detonating, single-action nose fuze is intended to function upon impact with the target. The fuze is used with the following HEI cartridges: M56A3/A4, M97A2, M210, M242 and M246.

Function:

Upon impact, the fuze initiates the HE filler and disperses the incendiary filler:. The fuze arms in flight. Its delay is 10 to 35 feet.

Tabulated Data:

Length (max)	1.23 in. (31 mm)
Weight `	330 gr
Diameter	
Explosive components:	, ,
Detonator	M47
Booster	T42

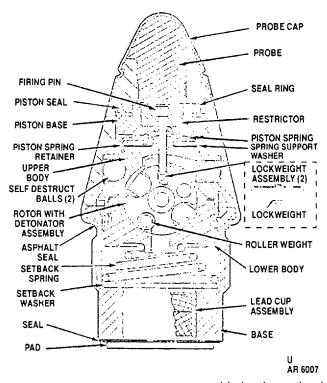
Packing:

For shipping fuzes from the fuze manufacturer to the cartridge LAP facility, the fuzes are packed 200 fuzes per carton, six cartons per wooden box, 1200 fuzes pert wooden box.

Shipping and Storage:

1.1
C
DETONATING
FUZES, CLASS C
EXPLOSIVES
7258863

FUZE, POINT-DETONATING, SELF-DESTROYING: M758



Type Classification:

STD - MSR 12796010.

Use:

The fuze is designed for use with the 25mm, high explosive incendiary with tracer, M792 cartridge, fired from the M242 cannon.

Description:

The point-detonating (PD), self-destroying (SD) M758 fuze is a delayed arming, PD SD type which also features graze impact sensitivity against hard and soft ground media as well as super-quick functioning upon target impact. The fuze consists of an ogive assembly crimped to a base assembly which houses a piston assembly, a piston spring, a body assembly, and a setback spring. The ogive assembly consists of a nylon probe within a steel ogive crimped to a steel probe cap while the base assembly consists of a lead charge within a steel base, the piston spring separates the piston assembly, consisting of an aluminum piston base, a piston seal, a seal ring, a steel restrictor, and a steel firing pill from the body assembly consisting of a nylon upper body, an aluminum lower body, a steel roller weight, a body, a zinc rotor; a detonator, two steel lockweights and lockweight springs which, in turn, separate from the base

assembly by the setback spring.

Function:

Starting from the safe condition, acceleration forces, associated with projectile launch, cause the body assembly and piston assembly located within the fuze ogive to be simultaneously set back to the rear of the fuze against the setback spring. Air originally in the bottom of the fuze is forced through ports into the chamber above the piston. The high spin forces, which occur almost simultaneously with the setback forces, serve three purposes. The spin effect causes two lockweights to move against their firing pin which keeps the motor in a safe position. Spin also causes two balls to move outward into groove located around the inner part of the ogive, locking the body assembly rearward against the compressed force of the setback spring. Spin also causes a rubber piston seal to flare out against the bore of the ogive, resulting in necessary piston scaling action. As the projectile leaves the muzzle, the acceleration force dissipates and the piston becomes free to move forward under forces exerted by the piston spring. The rate of piston movement forward is controlled by air being forced through a porous metal restrictor. This action provides the required arming delay time to meet the fuze no-arm and all-arm requirements. As the piston approaches the forward position, the firing pin is withdrawn from the

rotor, allowing it to rotate to the armed position. Centrifugal force acting on the roller weight causes it to move into a groove and lock the rotor in the armed position. The fuze is fully armed when the detonator is in line with the fitting pin and lead assembly. The fuze functions under conditions of direct impact, graze impact or self destruct (non-impact). Direct impact with the target causes a super-quick function of the fuze due to the crushing action of the nose probe. The nose probe is driven into the piston assembly, moving it rapidly rearward. The firing pin, as part of the piston assembly. is thereby driven into the detonator and the explosive train is initiated. Function at low graze angles can occur in two ways. On soft targets where the projectile tends to enter the target, the nose probe is crushed driving the piston firing pin into the detonator. On low angle or graze impacts on hard targets, deceleration of the projectile and spin decay occurs.

Spin decay reduces the centrifugal forces acting on the self-destruct balls and inertial force acts on the body assembly due to projectile deceleration. This, coupled with the stored energy of the setback spring, overrides the force exerted by the self destruct balls and the body assembly is driven forward rapidly. The detonator contacts the filing pill and begins initiation of the explosive train. If no contact is made with a target, the fuze will cause the projectile to function by self-destruct action after a predetermined flight time. Projectile spill decay reduces the centrifugal force acting on the selfdestruct balls. The stored energy in the setback spring overrides the holdback force of the balls and forces the body assembly forward to drive the detonator into the firing pin. Initiation of the explosive train occurs, and the projectile is detonated while still in flight.

Tabulated Data:

-uze M758:	
DODAC	IBA

Length (max)	1.417 in. (36 n1ni)
Weight (approx)	0.041 lb (18.56 g)
	0.661 in. (16.8 m1m)
Center of gravity (from	
base)	0.602 in. (15.3 3m1m)
Explosive components:	
Detonator	RDX/Lead Axide/
	NOL 130, 0.038 g
Lead charge	HMX, 0.285 g

Packing:

For shipping fuzes from the fuze manufacturer to the cartridge LAP facility, one packing unit consists of 1000 fuzes individually inserted into foam trays (200 fuzes per tray and five trays per packing unit) which are stacked with chipboard separators and then packed into inner and outer fiberboard boxes.

Length	19 in. (482.6 1mm)
Width	12.5 in. (317.5 mm)
Height	10.1 in. (25G6.5 11m)
Weight (empty)	
Weight (1000 fuzes)	52.6 lb (23.86 kg)

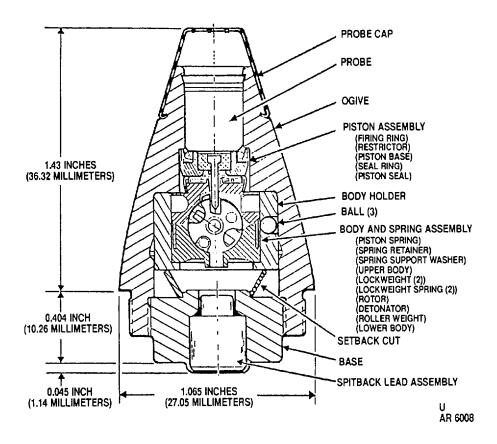
Shipping and Storage Data:

Quantity-distance class/	
SCG	1.1B
Storage code	Class VI
DOT shipping class	A
DOT designation	DETONATING
-	FUZES, CLASS A
	EXPLOSIVES
DOCAC	TBA
Drawing number	DS8861

References:

DARCOM 700-3-2 TM 9-1300-206

FUZE, POINT-DETONATING: M759 (XM714E6)



Type Classification:

STD

Use:

The fuze is designed for use with the 30mm high explosive dual purpose (HEDP) cartridges fired from the M230 automatic cannon.

Description:

Fuze M759 (formally designated as the XM714E6) is a point-detonating type with detonator and spitback charge. It is used with HEDP cartridge M789.

Function:

Prior to launch, the fuze detonator is housed in the rotor with the rotor locked in the safe position by the firing pin tip and two lockweights. On setback, the piston assembly (with firing pin) and body assembly (with detonator and rotor) are moved to the most rearward position by the firing pill tip and two lockweights. As the

fuzed projectile exits the gun muzzle, spin environment causes the lockweights to retract from the rotor and the two steel balls to engage the ogive groove, locking the body assembly in the position it had achieved at setback. In addition, spin causes the piston seal to flare and engage the ogive sidewalls which eliminates the air flow path between the ogive and piston. Movement of the piston assembly (firing pin) to the forward or armed position is delayed due to the regulated flow of trapped air through the restrictor until the projectile has traveled a minimum of 15 meters from the muzzle. After retraction to the firing pin from the rotor (last safety lock), the spin causes the rotor (with detonator) to rotate to the armed state, i.e., stab detonator aligned with firing pin and lead cup assembly. As the rotor achieves the armed position (150 in), the roller weight moves outboard from the rotor and engages the detent from the lower and upper bodies thus locking the rotor in armed state. Upon target impact, the probe nose piece is driven into the ogive forcing the piston assembly (firing pin) aft. The firing pin stabs the detonator and its explosive initiates the lead cup assembly explosive which, in turn, ignites the main charge.

Tabulated Data:

Type	.PD
Weight	.1.41 oz (40 g)
Length	.1.88 in. (47.72 mm)
Diameter	.1.06 in. (27.05 mm)
Material	. Aluminum
Non-arm range	
All-arm range	.150 m
Explosive components:	
Detonator	.NOL No. 130
	Priming Mix,
	0.0055 g
Lead Azide	.0.015 g
RDX Type B	.0.016 g

Spitback lead assembly: PBXN, Type II, C1, 2 or 3 PBXN-5, Type I, C1 or 3	· ·
Shipping and Storage Data:	
Quantity-distance class/ SCGDOT shipping classDOT designation	A

Drawing number......11834312

CHAPTER 18

ACCESSORIES

GENERAL

- a. <u>Accessories</u>. Accessories used with small arms ammunition, such as clips and metallic belt links, are described in this chapter. These items are listed and packed as indicated in SC 1305/30-IL and also listed in TM 9-1305-20120&P
- b. <u>Magazines for Pistols and Other Small Arms</u>. Magazines for pistols and other small arms do not come preloaded from the ammunition supply point. The magazine for the submachine gun M3 and M3A1 holds

30 rounds of ammunition and this also is not preloaded.

c. Metallic Link Belts. Ammunition for use in machine guns is issued in metallic link belts. Link belts are made of units of cartridges and links. Each link has two loops fitted around a single cartridge and one loop fitted around an adjacent cartridge. Each cartridge in a metallic link belt has two links attached to it, except the end cartridges. Cartridge links are made of steel which is processed to prevent rusting. They are manufactured and tested to assure satisfactory ammunition feeding and functioning under all service conditions.

ACCESSORIES FOR CARTRIDGES, CALIBER .50

Links, Closed Loop, M2 and M9:

Caliber .50, M2 and M9 links (fig. 18-7) are manufactured with closed loops. When assembled with the cartridge in belts, the links fit on the cartridge shoulder. The tapered front loops of the links are positioned firmly on the cartridge shoulder to hold the cartridge in proper alignment for feeding into the

weapon. The design required the cartridge to be extracted from the rear and dropped into position for moving into the chamber for firing. Weapons designed for the links require additional space in the rear of the receiver for retraction. M2 and M9 links are used with the M2 machine gun only.

Link, M2 (NSN 1305-00-096-3181(A640)) Link, M9 (NSN 1305-00-078-8463(A641))

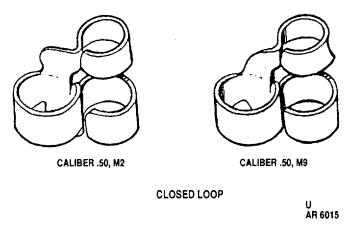


Figure 18-7. Caliber .50, M2 and M9 links (closed loop).

Link, Open Loop, M15A2:

The caliber .50, M15A2 link (fig. 18-8) is manufactured with partially open loops and has a positioning finger on one side which snaps into the extractor grooves of the cartridge to retain the cartridge in proper feed alignment. The link design permits a portion of bolt to ride through link loop openings and

push the cartridges forward and out of the link into the chamber for firing. The M15A2 link is used with the M85 machine gun.

References:

SC 1305/30IL TM 9-1305-201-20&P



Figure 18-8. Caliber .50, M15A2 link (open loop).

ACCESSORIES FOR CARTRIDGES, 5.56MM

Clips:

Cartridges for the 5.56mm M16 rifle are assembled in 10-round clips. The clip (fig. 18-1) consists of a channel-shaped body containing a spring with narrow

tabs at each end. After the clip is filled, the tabs are bent at right angles to the extrator rims of the end cartridges to hold them securely in the clip (NSN 1305-00-0524377).

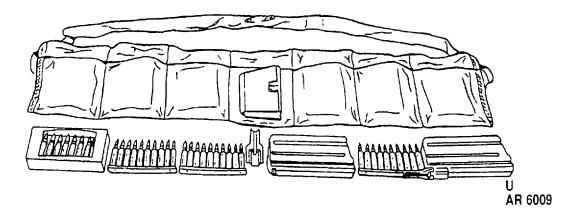


Figure 18-1. Cartridge clips and bandoleer for 5.56mm cartridges.

Link M27:

The M27 link (fig. 18-2) is a reduced size of the 7.62nmm link M13. The body link fits into the extractor groove on the cartridge case. The U.S. Navy, uses the link with the Stoner Machine Gun M63. The U.S. Army designated its use foil the M249 Machine Gun. The link is used with M855 Ball Cartridges, M856 Tracer, and M200 Blank only.

Other Accessories:

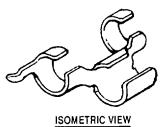
Fillet: Magazine.

Bandoleer; M3 (NSN 1305-00-9)24-3088).

References:

SC 1305/30IL TM

9-1305-201-20&P



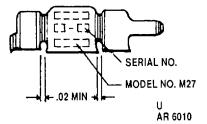


Figure 18-2. M27 link for 5.56mm.

ACCESSORIES FOR CARTRIDGES, 7.62MM

Clips:

Cartridges for the 7.62mm M14 rifles are assembled in 5-round clips (fig. 18-3). All cartridges are packed in bandoleers with separate magazine fillers. The clip, which consists of a channel-shaped body containing a spring, facilitates loading of magazines. Loaded clips are fitted into the top of the rifle receiver and the

cartridges are pressed into the magazine assembly. A magazine fillet; which adapts clips to the magazine, allows individual magazines to be loaded with clipped ammunition. The clip is 2.36 inches long. The 7.62mm ammunition and clip are shown with the M2 bandoleer in figure 18-4 and with the M4 bandoleer in figure 18-5. The M4 bandoleer is for belted ammunition for machine guns (NSN 1305-00-914-7912).

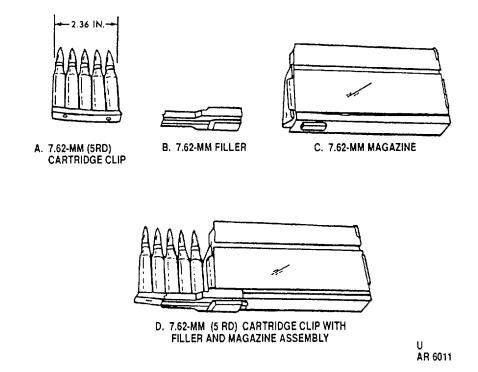


Figure 18-3. Cartridge clip, filler, and magazine assembly for 7.62mm cartridges.

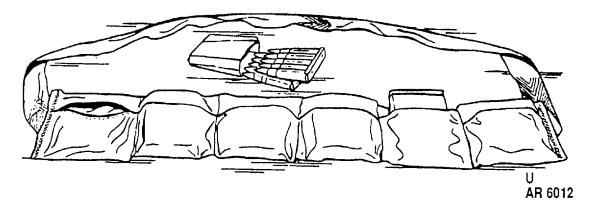


Figure 18-4. M2 bandoleer for 7.621imm cartridges.

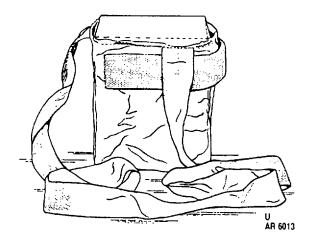


Figure 18-5. M4 bandoleer for 7.62mm cartridges.

Link M13:

The 7.62mm M13 link (fig. 18-6) is manufactured with partially open loops and has a positioning finger on one side which snaps into the extractor grooves of cartridges to retain the cartridge in proper feed alignment. The link design permits a portion of the bolt to ride through the link opening and push cartridges forward and out of the link into the chamber for firing.

Weapons using this type link are designed and manufactured with a short receiver, i.e., M60, M73, M219, M240, and M134 machine guns (NSN 1305-00-752-7815).

Other Accessories:

Fillet; Magazine.

Bandoleer; M2 (NSN 1305-00-984-1125). Bandoleer M4 (NSN 1305-00-079-3579).

References:

SC 1305/30IL TM 9-1305-201-20&P

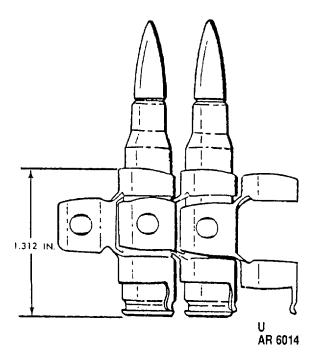


Figure 18-6. Cartridge M13 link for 7.62mm cartridges.

ACCESSORIES FOR CARTRIDGES, 20MM

Link M10:

The M10 link (fig. 18-9) is utilized in the M3 and M24 belt-fed automatic guns. The link is of steel and the belt is formed by the placement of cartridges within the links. The link is self-separating when the cartridges are removed during the gun feeding cycle. The metallic link can be used to make up belts for either right-hand or

left-hand feeding of the gun. A cartridge metallic-link filler is used at the end of the belt when it is desired to load belts for either double-loop left-hand feed or double-loop right-hand feed. The purpose of the link-filler is to close the single loop when it is at the end of the belt to prevent snagging in the feed chute (NSN 1305-00-028-4869).

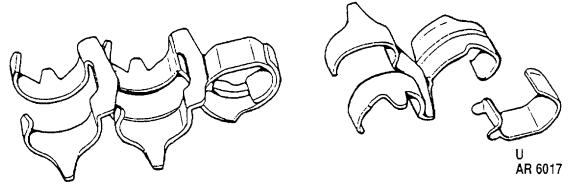


Figure 18-9. M10 link for 20mm cartridges.

Link M12:

The M12 metallic link (fig. 18-10) is used in belt-fed gas-operated M39 series automatic aircraft guns. The ammunition belt is formed by connecting a specified

number of links together and then inserting a cartridge for each link. The link is self-separating when cartridges are removed during the gun-feeding cycle. The M12 is an end loading link and is linked for either the right-hand or0 left-hand feeder (NSN 1305-00-541-0021).

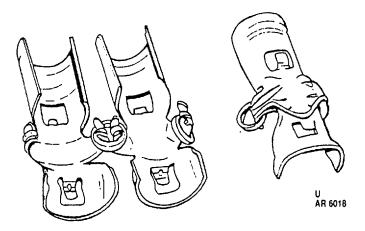


Figure 18-10. M12 link for 20mm cartridges.

Link M14A2:

The M14A2 link (fig. 18-11) is used primarily for linking 20amm ammunition for belt-fed M61 automatic

guns and loading of ammunition into linkless feed systems used in aircraft and ground defense vehicles. The link is self-separating when cartridges are removed during the feeding cycle (NSN 1305-00-935-9219).

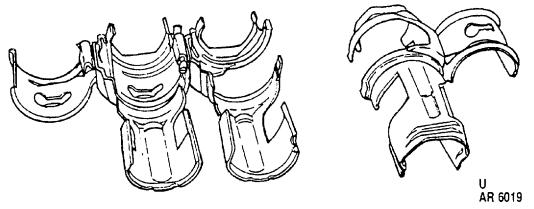


Figure 18-11. M14A2 link for 20mm cartridges.

Link M17A2:

The M17A2 link (fig. 18-12) is used for linking 20mim ammunition for belt-fed M61 automatic weapon

system in the B52 G & H aircraft. The link is self-separating when the cartridge is removed from the link during the feeding cycle,

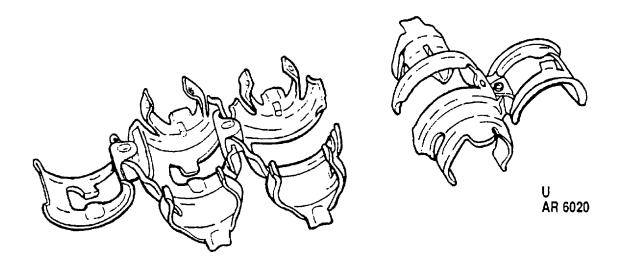


Figure 18-12. M17A2 link for 20mm cartridges.

Link M24 and M22:

The M24 link (fig. 18-13) is a metallic link for use with the following 20mm cartridges: M206A1 Target-Practice, M599 High-Explosive Incendiary Tracer, and M601 Armor-Piercing Incendiary racer. The European (German) DMI/DMIA link is also used for these

cartridges. The DMI/DMIA link is used with the HSH20 seriers. The M22 link is for U.S. Air Force use only. It is used to upload their linkless system. It is reusable and does not disintegrate.

Link, M22 (NSN 1305-00-926-1939).

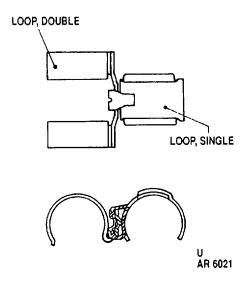


Figure 18-13. M24 link.

ACCESSORIES FOR CARTRIDGES, 25MM

Link M28:

The M28 link (fig. 18-14) is a two piece assembly intended to hold and link the 25mim ammunition for guiding the ammunition through the weapon system.

The assembly consists of hardened steel main and pivot links hooked together and contoured accordingly for its intended purpose. The Swiss Oerlikon link and the M28 male dimensionally identical.

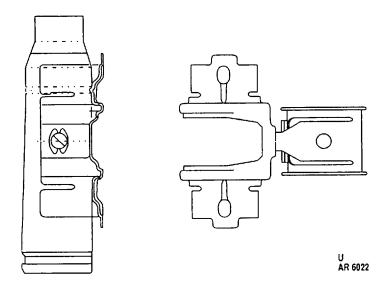


Figure 18-14. M28 link for 25mm cartridges.

ACCESSORIES FOR CARTRIDGES, 30MM

Link M29:

The M29 link (fig. 18-15) is 1050 steel with type Z (link) phosphate coating. It is used for interoperability with the NATO ADEN/DEFA weapon systems) (NSN 1305-01-078-5505).

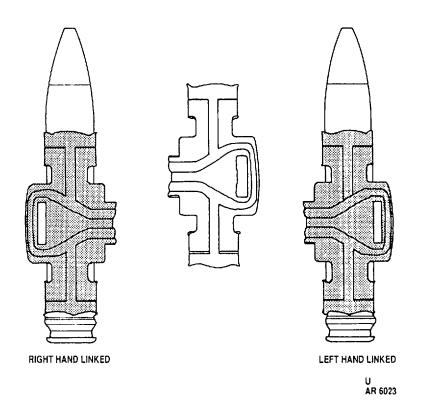


Figure 18-15. M29 link.

TABLE 18-1. SMALL ARMS AMMUNITION

Caliber	Ammunition	Clip	Magazine	Link	Weapon used
5.56mm	M193 Ball M195 Grenade M196 Tracer M197 High Pressure Test M199 Dummy M200 Blank M855 Ball M856 Tracer	10 rd	20 and 30 rd	M27	M231 Submachine Gun for M196 tracer only. M16/ M16A1 rifle. Stoner M63 (Navy) and M249 machine guns.
7.62mm	M59, M80 Ball M61 Armor Piercing M62 Tracer M63 Dummy M82 Blank M60 High Pressure Test M64 Grenade M118 Ball Match M160 Frangible M172 Dummy M852 Ball Match	5 rd	20 rd	M13 open loop for MG	M14 rifle; M60, M73, M219, M240*, and M134 machine guns. M14 rifle only. M14 rifle only M219 MG only. M60 MG only.

NOTE 10 rd clip f/M16A1. 5 rd clip f/M14. 20 rd mag f/M16A1. 30 rd mag f/M16Al. 20 rd mag f/M14.

Cal. 45	Ball, M1911 Blank M9 High Pressure Test M1		7 rd for pistol 30 rd for sub- machine gun.	N/A	Pistol M1911 andM19IIAI. Submachine gun M3 and M3A1.
	· · · · · · · · · · · · · · · · · · ·	· 	T	Г	
	M2 Ball M33 Ball M2 Armor Piercing M8 Armor Piercing Incendiary	N/A	N/A	**M15A2 open loop with M85 MG.	M85 Machine Gun.
Cal .50	M20 Armor Piercing Incendiary-Tracer M1 Incendiary M23 Incendiary M1 Tracer	N/A	N/A	***M2 and M9 closed loops with M2 MG.	M2 Machine Gun only.
	M10 Tracer M17 Tracer M2 Dummy, High Pressure Test				
	M1 Blank M1A1 Blank with M2 MG.	N/A	N/A	***M2 and M9 closed loops	M2 Machine Gun only.
	M48A2 Spotter- Tracer	N/A	10 and 20 rd	N/A	M8C Spotting Rifle
	T249E2 Practice	N/A	10 and 20 rd	N/A	M8C Spotting Rifle
	T251 High Pressure Test	N/A	10 and 20 rd	N/A	M8C Spotting Rifle

^{*} M240 Machine Gun only fires the Ball M80 and the Tracer M62.

^{**} Link M15A2 Open Loop used with M85 Machine Gun only.

^{***}Link M2 and M9 Closed Loop used with M2 Machine Gun only.

TABLE 18-1. SMALL ARMS AMMUNITION - Continued

Caliber	Ammunition	Link	Weapon (gun)
20mm	HEI-T-SD M246/M246A1 HEI M56A3/M56A4 TP-T M220 TP M55A2 Dummy M51A2	M14 series	M167A1 (M168 Cannon)
20mm	API-T M52E1 API M53 HEI M56A3/M56A4 HEI-T M242 HEI-T-SD M246/M246A1 TP M55A2 TP-T M220 Dummy M51A2	M12 Metallic Link for M39 Cannon. M14A2 for M61 Cannon.	M39, M61
20mm	API-T M52E1 API M53 HEI M56A3/M56A4 HEI-T M242/M242A1 HEI-T-SD M246/M246A1 TP M55A2 TP-T M220 Dummy M51A2	M17A2	M61
20mm	API M53 HEI M56A3/M56A4 TP M55A2 Dummy M51A2	M14A2	M195 Linker-Delinker M25
20mm	HEI-T-SD M246/M246A1 HEI M56A3/M56A4 TP-T M220 TP M55A2 Dummy M51A2	M14A2	168, 197
20mm	AP-T M95 Incendiary M96 TP M204 HEI M210	M10	МЗ
20mm	AP-T M95 Incendiary M96 HEI M97A2 TP M99A1	M10	M24A1
20mm	HEI-T M599 API-T M601 TP-T M220	M24 or DMI/DMIA	139
25mm	API-T M791 HEI-T M792 TP-T M793	M28	M242
30mm	HEDP M789 TP M788 HEI M799	M29	M230 NATO M552/M553

*U.S. GOVERNMENT PRINTING OFFICE: 1995 - 646-049/00715 18-18

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The Metric System and Equivalents

Linear Measure

- 1 centimeter = 10 millimeters = .39 inch
- 1 decimeter = 10 centimeters = 3.94 inches
- 1 meter = 10 decimeters = 39.37 inches
- 1 dekameter = 10 meters = 32.8 feet
- 1 hectometer = 10 dekameters = 328.08 feet
- 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

- 1 centigram = 10 milligrams = .15 grain
- 1 decigram = 10 centigrams = 1.54 grains
- 1 gram = 10 decigram = .035 ounce
- 1 decagram = 10 grams = .35 ounce
- 1 hectogram = 10 decagrams = 3.52 ounces
- 1 kilogram = 10 hectograms = 2.2 pounds
- 1 quintal = 100 kilograms = 220.46 pounds 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

- 1 centiliter = 10 milliters = .34 fl. ounce
- 1 deciliter = 10 centiliters = 3.38 fl. ounces
- 1 liter = 10 deciliters = 33.81 fl. ounces
- 1 dekaliter = 10 liters = 2.64 gallons
- 1 hectoliter = 10 dekaliters = 26.42 gallons
- 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

- 1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
- 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
- 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
- 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
- 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
- 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

- 1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
- 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
- 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	То	Multiply by	To change	То	Multiply by
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit	5/9 (after	Celsius	°C
	temperature	subtracting 32)	temperature	

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